Environment Canada   Environnement Canada

Detailed Surface Water Quality Data

Alberta, Manitoba, Northwest Territories and Saskatchewan

Données détaillées sur la qualité des eaux de surface

Alberta, Manitoba, Territoires du Nord-Ouest et Saskatchewan

1982

87-01867/

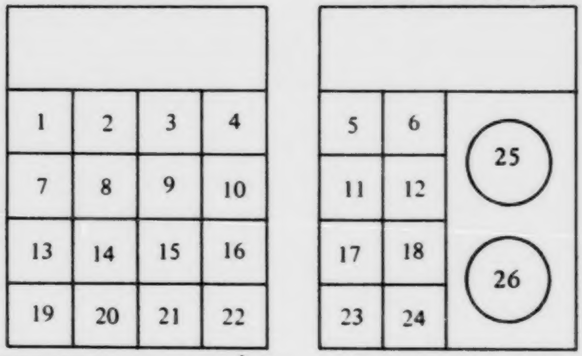
The patterns used to illustrate the cover of this publication are typical of the forms in which results are obtained from the instruments used in Water Quality Branch laboratories. The instruments which produced these patterns are only a few of the many instruments in regular use. The list below and the diagram can be used to identify the instruments which produced the patterns:

Auto Analyser: 2, 5, 10, 12, 19, 22
Calibration Curves, Auto Analyser: 23
Polarograph: 1, 6, 11, 21
Gas Chromatograph: 3, 8, 9, 13, 14, 16, 18, 20, 24
Infrared Spectrophotometer: 4, 17
Mass Spectrometer: 7, 15
Computer: 25, 26

Les dessins de la page couverture illustrent la forme sous laquelle on recueille les données obtenues par les appareils des laboratoires de la Direction de la qualité des eaux. Les appareils en question ne représentent qu'une partie de tous ceux qui sont couramment utilisés. La liste qui suit et le schéma peuvent servir à les identifier.

Auto-analyseur: 2, 5, 10, 12, 19, 22
Courbes d'étalonnage d'auto-analyseur: 23
Polarographe: 1, 6, 11, 21
Chromatographe en phase gazeuse: 3, 8, 9, 13, 14, 16, 18, 20, 24
Spectrophotomètre infrarouge: 4, 17
Spectromètre de masse: 7, 15
Ordinateur: 25, 26

BACK COVER FRONT COVER



COUVERTURE ARRIÈRE COUVERTURE AVANT

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Detailed Surface Water Quality Data

Alberta, Manitoba, Northwest Territories and Saskatchewan

Données détaillées sur la qualité des eaux de surface

Alberta, Manitoba, Territoires du Nord-Ouest et Saskatchewan

1982

INLAND WATERS DIRECTORATE
WESTERN AND NORTHERN REGION
WATER QUALITY BRANCH
REGINA, SASKATCHEWAN, 1985

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
RÉGION DE L'OUEST ET DU NORD
DIRECTION DE LA QUALITÉ DES EAUX
REGINA, SASKATCHEWAN, 1985

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Abstract

Chemical, physical and biological surface water data collected in Alberta, Manitoba, Northwest Territories and Saskatchewan during 1982 are detailed herein. These data are intended to provide a ready reference to the water quality variables measured.

Résumé

Le présent document renferme les données chimiques, physiques et biologiques recueillies en 1982 sur les eaux de surface en Alberta, au Manitoba, dans les Territoires du Nord-Ouest et en Saskatchewan. Ces données devraient permettre la consultation rapide des variables se rapportant à la qualité des eaux.

INTRODUCTION

The chemical, physical and biological data collected from selected surface waters in Alberta, Manitoba, Northwest Territories and Saskatchewan during 1982 are presented in this report. These data were obtained from a number of Water Quality Branch programs and therefore the amount of available data varies from site to site.

Data collection by the Branch may be done either as a special study or survey or as part of a long-term monitoring program. Special studies or surveys are usually of short duration with specific objectives such as determining the source, the pathways, or the distribution of a pollutant in the aquatic environment. Long-term monitoring may be defined as the systematic collection of samples at strategic locations to provide an overview of the water quality in the aquatic system. This baseline information supports work for assessing trends in the aquatic environment, establishing water quality objectives and assessing the impacts of development.

This report belongs to the series of detailed water quality data reports published for the Western and Northern region since 1974. These publications are intended for those who desire detailed information on available water quality variables. Earlier reports were published separately for each province and Northwest Territories and covered periods of 2 and 3 years.

The data contained in this report are stored on the NAQUADAT computerized storage and retrieval system. While these data are edited prior to publication, they remain subject to post-publication revision.

The assistance of personnel from the Water Quality Branch, Hull/Ottawa, in preparing the data retrievals and maps for this report is gratefully acknowledged.

GUIDE TO USE OF TABLES

Data in this report are arranged in order of the 12-digit code assigned to each station (NAQUADAT station number). This code incorporates the Water Survey of Canada basin and sub-

INTRODUCTION

Le présent rapport traite des données d'ordre chimique, physique et biologique relatives à des eaux de surface choisies de l'Alberta, du Manitoba, des Territoires du Nord-Ouest et de la Saskatchewan. Ces données ont été obtenues à partir d'un certain nombre de programmes, de la Direction de la qualité des eaux, durant 1982 et par conséquent, l'ensemble des données disponibles, varie d'emplacement à l'autre.

La Direction entreprend la cueillette des données en raison soit d'une étude ou d'une enquête spéciale, soit d'un programme de contrôle à long terme. Les études spéciales sont habituellement de courte durée et possèdent des objectifs précis, comme de déterminer la source, les parcours ou la distribution d'un polluant dans l'environnement aquatique. Quant à la surveillance à long terme, on peut la définir comme une collecte systématique d'échantillons à des emplacements choisis, permettant d'obtenir un aperçu global de la qualité des eaux dans le système aquatique. Ces données servent ensuite de base à l'évaluation des tendances dans l'environnement aquatique, à l'établissement d'objectifs en matière de qualité des eaux et à l'évaluation des effets de l'aménagement.

Le présent rapport fait partie d'une série contenant des données détaillées sur la qualité des eaux. Cette série est publiée depuis 1974 pour le compte de la région de l'Ouest et du Nord. Ces publications s'adressent aux personnes qui désirent obtenir des renseignements détaillés relatives aux variables disponibles sur la qualité des eaux. Les anciens rapports étaient publiés séparément pour chaque province et pour les Territoires du Nord-Ouest et couvraient des périodes de 2 ou 3 ans.

Les données, contenues dans ce rapport, sont emmagasinées dans la banque NAQUADAT, système de stockage et de recouvrement informatisés. Ces données ont été révisées avant d'être publiées, mais éventuellement, elles devront faire encore l'objet d'une révision ultérieure.

On remercie vivement le personnel de la Division de la qualité des eaux, à Hull et à Ottawa, pour leur aide dans l'extraction des données et la préparation des cartes.

GUIDE D'UTILISATION DES TABLEAUX

Les données sont disposées selon le code de 12 éléments assigné à chaque station (numéro de station NAQUADAT) et incluant la désignation de la Division des relevés hydrologiques du Canada

basin designation. In the station number, the first two numerals refer to the water type (00 designates a stream, 01 a lake or reservoir) and they are followed by a two-letter provincial code (AL, MA, NW, SA for Alberta, Manitoba, Northwest Territories and Saskatchewan, respectively). The next two numerals and two letters refer to the basin and sub-basin respectively, followed by a final four-digit sequence number. An alphabetical station index and a station location map for each of the provinces and Northwest Territories are presented at the end of each section. For locations where a Station Parameter code (e.g. 97900S) is given, Water Survey of Canada discharge data are also available for that site. For those wishing to refer to specific discharge data for a site, the appropriate Water Survey Station Reference Number can be derived from the NAQUADAT station number by replacing its final four-digit sequence with the three digits following the station parameter code. Geographical coordinates of the sampling sites are also provided in the index.

CODING OF ANALYTICAL METHODS

The analytical method employed is defined by the six-digit code number shown at the top of each column of data. If the analytical method used for a particular datum was different from the one indicated in the column heading, then the last three digits of the appropriate method code appear as backup codes beside the actual result. The parameter code number is of the form ZZXYYA where:

(1) ZZ is a numeric code designating the type of test as shown in the table following:

Tests	Parameter Code
Chemical tests	ATXYYA (AT-Atomic number)
Balances and other calculated parameters	00XYYA
General physical tests	02XYYA
General chemical tests	10XYYA
Pesticides and herbicides	18XYYA
Bacteriological tests	36XYYA

relative aux bassins et aux sous-bassins. Les deux premiers chiffres se rapportent au type d'eau (00 désigne un cours d'eau, 01 un lac ou un réservoir) et sont suivis de deux lettres désignant la province (AL, MA, NW, SA pour Alberta, Manitoba, Territoires du Nord-Ouest et Saskatchewan respectivement). Ensuite viennent deux chiffres et deux lettres, respectivement pour le bassin et le sous-bassin, puis finalement un numéro séquentiel de quatre unités. Un index alphabétique des stations et une carte pour chaque province et pour les Territoires du Nord-Ouest identifiant leur emplacement paraissent à la fin de chaque section. La Division des relevés hydrologiques du Canada dispose également des données relatives au débit pour les stations auxquelles on a assigné un code paramétrique (p. ex. : 97900S). Les personnes qui désirent obtenir des données de débit précises, pour une station donnée, peuvent établir le numéro de référence approprié de la Division en remplaçant les quatre derniers chiffres du numero de la station NAQUADAT par le code des unités, qui est indiqué à la suite du code paramétrique. L'index renferme également les coordonnées géographiques des lieux d'échantillonnage.

CODES DES MÉTHODES ANALYTIQUES

La méthode analytique employée est indiquée par le code de six éléments paraissant à la tête de chaque colonne de données. Si, pour une donnée particulière, la méthode analytique utilisée était différente de celle indiquée en rubrique, les trois dernières unités du code de la méthode appropriée paraîtraient alors à côté de la donnée. Le numéro de code du paramètre se présente sous la forme ZZXYYA, où :

(1) ZZ est un code numérique désignant le type d'essai, conformément à la liste suivante :

Essais	Code paramétrique
Essais chimiques	ATXYYA (AT : numéro atomique)
Bilans et autres paramètres calculés	00XYYA
Essais physiques généraux	02XYYA
Essais chimiques généraux	10XYYA
Pesticides et herbicides	18XYYA
Essais bactériologiques	36XYYA

Biological information	54XYYA
Other information	97XYYA, 98XYYA and 99XYYA

(2) X is a one-digit numerical code (0-9) subdividing group (1).

(3) YY is a two-digit sequential numerical code identifying the analytical method used for the test. In certain cases this field is used to further subdivide the type of tests described in (1) and (2).

(4) A is a one-digit alphabetical code indicating the place where the analysis was carried out, whether the sample was preserved and/or filtered, and whether the result is a mean or median of replicate analyses.

- S in situ analysis
- F field analysis
- L laboratory analysis
- P preserved in field; laboratory analysis
- D filtered in field; laboratory analysis
- R mean or median of laboratory analyzed replicates
- G filtered and preserved in field; laboratory analysis
- T mean or median of field filtered and preserved replicates; laboratory analyzed
- U mean or median of field analyzed replicates
- V mean or median of field filtered replicates; laboratory analysis
- W mean or median of field preserved replicates; laboratory or field analysis

In some cases values within the same column have different numbers of significant figures. This may occur when two or more analytical methods have been used to measure a particular parameter and generally reflects the increased precision of the newer method.

A complete description of all the parameter code numbers is given in the NAQUADAT Dictionary.

DEFINITION OF TERMS AND SYMBOLS

G	greater than
JTU's	Jackson turbidity units

Renseignements biologiques	54XYYA
Autres renseignements	97XYYA, 98XYYA et 99XYYA

(2) X est un code numérique à un chiffre (0 à 9) qui subdivise le groupe (1).

(3) YY est un code numérique séquentiel qui précise la méthode analytique employée pour l'essai. Il sert quelquefois à subdiviser davantage le type d'essai décrit en (1) et (2).

(4) A est un code d'une lettre indiquant l'endroit de l'analyse et si l'échantillon a été conservé et/ou filtré et si le résultat est une moyenne ou une médiane des échantillons analysés.

- S analyse sur le lieu-même
- F analyse sur le terrain
- L analyse au laboratoire
- P conservé sur le terrain; analyse au laboratoire
- D filtré sur le terrain; analyse au laboratoire
- R moyenne ou médiane répétée d'échantillons analysés au laboratoire
- G filtré et conservé sur le terrain; analyse au laboratoire
- T moyenne ou médiane répétée des échantillons filtrés et conservés sur le terrain; analyse au laboratoire
- U moyenne ou médiane répétée des échantillons analysés sur le terrain
- V moyenne ou médiane répétée des échantillons filtrés sur le terrain; analyse au laboratoire
- W moyenne ou médiane répétée des échantillons conservés sur le terrain; analyse au laboratoire ou sur le terrain

Quelquefois, dans la même colonne, des codes ne possèdent pas le même nombre d'éléments. Cela peut arriver lorsqu'on a utilisé deux méthodes analytiques ou plus pour mesurer un paramètre donné et le code révèle la précision accrue de la nouvelle méthode.

Le dictionnaire NAQUADAT donne une description complète de tous les numéros de code paramétrique.

DÉFINITION DES TERMES ET DES SYMBOLES

G	plus grand que
JTU	unité de turbidité de Jackson

L	less than
Lat.	latitude in degrees, minutes and seconds
Long.	longitude in degrees, minutes and seconds
MG/L	milligrams per litre
NAQUADAT	National Water Quality Data Storage and Retrieval System
Q	signifies that at least one of the values used in the computation of this result was reported as less than the detection limit. In the computation of calculated parameters analytical values reported as "less than the detection limit" are interpreted as being equal to the numeric value of the detection limit. For example, when computing total nitrogen, given a particulate nitrogen value of less than 0.01 milligram/litre (L0.01 MG/L) and a dissolved nitrogen value of 0.36 MG/L, the numeric values would simply be added to give a total nitrogen Q.37 MG/L.
NO./100 ML	number per 100 millilitres
REL. UNITS	relative colour units
SUBM ID	submitter identification number. This identifies the sample collector and the project under which the data was collected.
UG/L	Micrograms per litre
USIE/CM	Microsiemens per centimetre

L	moins que
Lat.	latitude en degrés, minutes et secondes
Long.	longitude en degrés, minutes et secondes
MG/L	milligrammes par litre
NAQUADAT	banque nationale de stockage et de recouvrement des données sur la qualité des eaux
Q	signifie qu'au moins une des valeurs utilisées dans le calcul de ce résultat a été signalée comme étant inférieure à la limite de détection. Dans le calcul des paramètres, les valeurs analytiques signalées comme «inférieures à la limite de détection» ont été interprétées comme étant égales à la valeur numérique de la limite de détection. Par exemple, si l'on veut calculer la teneur en azote total, lorsqu'on a une valeur en azote particulaire de moins de 0.01 milligramme par litre (L 0.01 MG/L) et une valeur de 0.36 MG/L pour l'azote dissous, on n'a qu'à additionner les deux valeurs, ce qui donne pour l'azote total : Q.37 MG/L.
NO./100 ML	nombre par 100 millilitres
REL. UNITS	unités relatives de couleur
SUBM ID	identifie la personne qui a recueilli l'échantillon et le projet-cadre
UG/L	microgrammes par litre
USIE/CM	microsiemens par centimètre

ADDITIONAL INFORMATION

Additional information on these data or requests for data not included in this publication may be obtained from the appropriate office:

District Resource Officer
Water Quality Branch
Environment Canada
Rm. 854, 220-4th Avenue S.E.
Calgary, Alberta
T2P 2M7

Phone: (403) 231-5320

District Resource Officer
Water Quality Branch
Environment Canada
133-Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Phone: (204) 949-5035

Water Quality Specialist
Inland Waters Directorate
Environment Canada
Box 2970
Yellowknife, Northwest Territories
X1A 2R2

Phone: (403) 920-8501

District Resource Officer
Water Quality Branch
Environment Canada
Motherwell Building
1901 Victoria Avenue
Regina, Saskatchewan
S4P 3R4

Phone: (306) 359-5317

Questions specifically relating to analytical methodologies should be directed to:

Head, Analytical Services Division
Water Quality Branch
Environment Canada
115 Perimeter Road
Saskatoon, Saskatchewan
S7N 0X4

Phone: (306) 975-5390

RENSEIGNEMENTS SUPPLÉMENTAIRES

Pour obtenir d'autres renseignements ou pour des données non comprises dans le présent rapport, écrire à l'un des bureaux suivants :

Agent des ressources de district
Direction de la qualité des eaux
Environnement Canada
Rm. 854, 220-4th Avenue S.E.
Calgary (Alberta)
T2P 2M7

Téléphone : (403) 231-5320

Agent des ressources de district
Direction de la qualité des eaux
Environnement Canada
133-Freshwater Institute
501 University Crescent
Winnipeg (Manitoba)
R3T 2N6

Téléphone : (204) 949-5035

Spécialiste de la qualité des eaux
Direction générale des eaux intérieures
Environnement Canada
C.P. 2970
Yellowknife (Territoires du Nord-Ouest)
X1A 2R2

Téléphone : (403) 920-8501

Agent des ressources de district
Direction de la qualité des eaux
Environnement Canada
Motherwell Building
1901 Victoria Avenue
Regina (Saskatchewan)
S4P 3R4

Téléphone : (306) 359-5317

Pour toute question concernant la méthodologie analytiques, écrire à :

Chef, Division des services analytiques
Direction de la qualité des eaux
Environnement Canada
115 Perimeter Road
Saskatoon (Saskatchewan)
S7N 0X4

Téléphone : (306) 975-5390

ALBERTA

Detailed Data / Données détaillées

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0002 LAT. 49D 42M 29S LONG. 112D 52M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-26	1500	479	2.0	19.2	439.	455.	7.9	7.7	--	4.5
82-02-17	1530	479	3.0	20.6	405.	417.	7.9	7.9	--	3.1
82-03-23	1500	479	2.0	20.4	419.	428.	8.3	8.1	--	31.0
82-04-27	1515	479	12.0	22.1	383.	372	8.5	8.3	36.0	28.0
82-05-26	1430	479	10.0	23.3	259.	250.	8.2	8.1	176.0	120.0
82-06-22	1430	479	18.0	24.2	209.	201.	8.0	8.2	94.0	58.0
82-07-20	1430	479	20.0	24.0	257.	245.	8.4	8.5	16.0	9.0
82-08-10	1510	479	23.0	21.1	335	303.	8.3	8.5	--	6.2
82-09-21	1515	479	15.0	21.0	351	321.	8.4	8.4	--	2.5
82-10-20	1515	479	6.5	13.8	307.	280.	8.3	8.3	--	3.3
82-11-18	1700	479	1.5	18.3	337.	343.	8.2	8.2	14.0	9.0
82-12-14	1500	479	.5	10.5	394	344	8.2	8.0	5.0	3.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717C CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-26	1500	479	5.	5.	--	003	9	11.	1.	9.7
82-02-17	1530	479	10	6	-	002	--	11	G80	12.5
82-03-23	1500	479	20	30.	--	.005	66	4	G300.	13.0
82-04-27	1515	479	10	33.	--	-	12	12.	8	10.5
82-05-26	1430	479	20	161		030	--	355	640	9.2
82-06-22	1430	479	5	148	-	007	100	20	80.	8.5
82-07-20	1430	479	5	17	--	003	265.	70	105	8.4
82-08-10	1510	479	10	12.	-	.003	--	50	45	9.1
82-09-21	1515	479	10	5	--	001	20	15.	59	9.7
82-10-20	1515	479	5	5.	-	001		2	270.	11.2
82-11-18	1700	479	10	10. 01R	-	003 171	80. 02U	13 12U	114. 03U	12.8
82-12-14	1500	479	15	5.	-	L 001	8	2.	78	13.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-26	1500	479	0.	0	219	180.0	48.90	19.1	200.7	16.0
82-02-17	1530	479	0	0	201.	165.0	50.90	18.0	201.2	13.0
82-03-23	1500	479	0	0	195	160.0	48.10	18.4	195.9	19.0
82-04-27	1515	479	0	0	177	145.0	43.50	16.2	175.3	15.0
82-05-26	1430	479	0	0	128	105.0	33.10	10.1	124.2	7.2
82-06-22	1430	479	0	0	115.	94.0	26.10	8.2	98.9	3.1
82-07-20	1430	479	3	2.1	129.	110.0	30.10	11.1	120.9	6.7
82-08-10	1510	479	1	1.0	144.	120.0	32.90	13.8	139.0	14.0
82-09-21	1515	479	1.	7	157.	130.0	34.80	15.5	150.7	19.0
82-10-20	1515	479	0	.0	152	125.0	37.00	12.8	145.1	8.1
82-11-18	1700	479	0	.0	171	140.0	40.80	15.6	166.1	13.0
82-12-14	1500	479	0	.0	189	155.0	41.90	15.6	168.9	10.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-26	1500	479	1.1	2.0	.18	58.	4.2	257.	--	--
82-02-17	1530	479	1.0	3.1	.12	54	3.6	243.	--	--
82-03-23	1500	479	1.8	3.7	.14	64	2.8	254.	--	--
82-04-27	1515	479	2.2	2.2	.14	52.	1.9	220	--	--
82-05-26	1430	479	1.0	1.4	.10	22.	4.4	142.	--	--
82-06-22	1430	479	.6	.6	.06	12.	3.4	110.	--	--
82-07-20	1430	479	.8	.9	.10	20.	2.0	138.	--	--
82-08-10	1510	479	1.5	1.5	.12	40	1.0	177.	--	--
82-09-21	1515	479	1.3	1.9	.07	48.	.9	199.	--	--
82-10-20	1515	479	.9	1.2	.10	29.	2.0	166.		--
82-11-18	1700	479	1.2	1.4	.14	39.	2.7	198.	--	--
82-12-14	1500	479	.9	1.6	.09	40.	2.4	205.	--	--

STATION - 00AL05AD0002 LAT 49D 42M 29S LONG. 112D 52M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-26	1500	479	.011	.004	007	.27	.40	42	02	.44
82-02-17	1530	479	.020	010	010	.34	40	41	01	.42
82-03-23	1500	479	050	011	039	.21	.31	.31	.14	.45
82-04-27	1515	479	037	003	034	L.01	.20	20	15	.35
82-05-26	1430	479	290	.015	.280	.12	.21	.22	.52	.74
82-06-22	1430	479	110	010	100	06	.13	.13	24	.37
82-07-20	1430	479	.046	.007	039	.01	.10	.10	07	.17
82-08-10	1510	479	045	.022	023	04	.20	19	07	.26
82-09-21	1515	479	005	L.003	L.006	.01	10	.09	04	.13
82-10-20	1515	479	.011	007	L.006	L.01	.07	.07	L 01	.07
82-11-18	1700	479	012 06R	L 003 03V	.010 01R	.05 10V	11 51V	.11 51R	L.01 02R	--
82-12-14	1500	479	009	L 003	007	15	.15	.15	L.01	.15

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-26	1500	479	L 1	--	1.8	18	2.0	.06 05D	L.0005	.0006
82-02-17	1530	479	L 1	--	1.9	.31	2.2	07 05D	L.0005	0008
82-03-23	1500	479	L.1	--	2.8	2.20	5.0	05 05D	L.0005	.0008
82-04-27	1515	479	L 1	--	3.8	92	4.7	03 05D	.0005	0005
82-05-26	1430	479	L 1	--	3.4	5 60	9.0	06 05D	.0005	0005
82-06-22	1430	479	L 1	-	1 8	2 20	4.0	04 05D	L.0005	L.0005
82-07-20	1430	479	L 1	-	1 7	47	2.2	L.02 05D	L.0005	L.0005
82-08-10	1510	479	L 1	--	2.3	45	2.8	03 05D	.0005	L.0005
82-09-21	1515	479	L 1	--	1.8	29	2.1	02 05D	L 0005	L.0005
82-10-20	1515	479	L 1	--	1.6	.24	1.8	03 05D	L.0005	L.0005
82-11-18	1700	479	L 1 06W	-	1 4 04R	38 02R	1.8	03 05V	L.0005 04V	.0006 02V
82-12-14	1500	479	L 1	--	1.3	19	1.5	.07 05D	L.0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-26	1500	479	--	L 004	-	L.01	-	L 04	L 02	L 001
82-02-17	1530	479		-	--	L 01	-	L 04	L 02	-
82-03-23	1500	479		--	--	L.01		L 04	L.02	--
82-04-27	1515	479	--	--		L.01		04	L 02	--
82-05-26	1430	479	--	L 004	--	L.01		04	L 02	016
82-06-22	1430	479	-	--	-	L.01	-	L 04	L.02	--
82-07-20	1430	479	--	--	--	L.01		L 04	L 02	--
82-08-10	1510	479	-	L.004	--	L.01	--	L 04	.04	.001
82-09-21	1515	479	--	--	-	L.01	-	L.04	L 02	-
82-10-20	1515	479	--	L 004	-	L.01	-	L.04	L.02	L.001
82-11-18	1700	479	--	--	--	L.01 04I	-	L 04 04I	L 02 11H	--
82-12-14	1500	479	--	--	-	L.01	--	L 04	L 02	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-26	1500	479	--	L.002	L 002	L.001	.008	002	13	L.004
82-05-26	1430	479	-	002	006	008	.031	L 001	21	.011
82-08-10	1510	479	--	L 002	003	L 001	--	L.001	.13	005
82-10-20	1515	479	--	L.002	L.002	001	L.001	L.001	12	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0002
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

LAT 49D 42M 29S LONG. 112D 52M 30S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/l	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/l	178111 HEXACHLORO-BENZENE UG/L	180751 ALPHA-BHC UG/l	180701 GAMMA-BHC (LINDANE) UG/L	181301 ALDRIN UG/L	180101 P.P-TDE UG/l
82-01-26	1500	479	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-02-17	1530	479	.003	--	--	--	--	--	--	--
82-03-23	1500	479	L.001	--	--	--	--	--	--	--
82-04-27	1515	479	L.001	--	--	--	--	--	--	--
82-05-26	1430	479	.002	--	--	L.001	.003	L.001	L.001	L.002
82-06-22	1430	479	.001	--	--	--	--	--	--	--
82-07-20	1430	479	.002	--	--	--	--	--	--	--
82-08-10	1510	479	L.001	--	--	L.001	.005	L.001	L.001	L.002
82-09-21	1515	479	.006	--	--	--	--	--	--	--
82-10-20	1515	479	.002	--	--	L.001	L.001	L.001	L.001	L.002
82-11-18	1700	479	.001 35W	--	--	--	--	--	--	--
82-12-14	1500	479	L.001	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	180201 P.P-DDE UG/L	180051 O.P-DDT UG/L	180001 P.P-DDT UG/L	180301 P.P-METHOXY-CHLOR UG/L	181401 ENDRIN UG/l	180501 ALPHA-ENDOSULFAN UG/L	180551 BETA-ENDOSULFAN UG/L	180401 HEPTACHLOR UG/L
82-01-26	1500	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-26	1430	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-10	1510	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-20	1515	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	180451 HEPTACHLOR EPOXIDE UG/l	181501 HEOD (DIELDRIN) UG/L	181251 MIREX UG/l	180601 ALPHA-(CIS) CHLORDANE UG/l	180651 GAMMA-(TRANS) CHLORDANE UG/l	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/l
82-01-26	1500	479	L.002	L.0020	L.001	L.003	L.002	L.2	.008	L.009
82-05-26	1430	479	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-08-10	1510	479	L.002	L.0020	L.001	L.003	L.002	L.2	.200	L.009
82-10-20	1515	479	L.002	L.0020	L.001	L.003	L.002	L.2	.006	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/l	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/l	18601P PICLORAM UG/L	181591 AROCLOR 1242 (PCB'S) UG/L	181601 AROCLOR 1254 (PCB'S) UG/L	181621 AROCLOR 1260 (PCB'S) UG/L	181641 AROCLOR TOTAL (PCB'S) UG/L
82-01-26	1500	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-05-26	1430	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-08-10	1510	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-10-20	1515	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/l	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/l	18215P DISULFOTON UG/l	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-26	1500	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-05-26	1430	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-10	1510	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-20	1515	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0002 LAT. 49D 42M 29S LONG. 112D 52M 30S
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-26	1500	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-05-26	1430	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-10	1510	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-20	1515	479	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05AD0005 LAT. 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-27	1515	3	2.0	19.8	176.	179.	8.2	8.1	--	.7
82-02-18	1430	3	3.5	20.0	171.	178.	8.1	8.0	-	.6
82-03-24	1400	3	3.5	21.0	163.	163.	8.4	8.0	-	1.0
82-04-28	1400	3	7.5	21.2	178.	168.	8.2	8.1	2.0	.9
82-05-27	1245	3	6.0	19.9	171.	154.	8.1	8.0	2.8	2.0
82-06-23	1345	3	12.0	23.5	153.	141.	7.5	8.1	2.4	1.4
82-07-21	1330	3	10.0	24.0	166.	137.	8.0	8.2	.6	.6
82-08-11	1130	3	16.0	21.0	153.	149.	7.9	8.3	--	.5
82-09-22	1315	3	11.5	17.7	164.	148.	8.2	8.3	--	1.4
82-10-21	1345	3	6.0	16.5	172.	157.	8.1	8.2	-	.9
82-11-19	1415	3	0	18.7	173.	164.	7.9	8.1	1.2	.9
82-12-15	1430	3	1.0	7.6		154.	7.7	7.7	-	.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-27	1515	3	5	L1.	-	.006	L1.	L1	--	12.2
82-02-18	1430	3	5	1		.007	L1	L1	--	12.8
82-03-24	1400	3	5	1		.004	L1	L1	-	11.9
82-04-28	1400	3	5	1		.002	L1	L1	-	10.7
82-05-27	1245	3	5	2	-	.004	6	L1	--	10.4
82-06-23	1345	3	15	2		.001	L1	L1	-	10.2
82-07-21	1330	3	5	L1	-	.002	--	3	-	9.2
82-08-11	1130	3	10	1	--	.002		23.	-	8.2
82-09-22	1315	3	5	L1		.003	L2.	L2	--	9.7
82-10-21	1345	3	15	1	-	.003	L2	L2	-	10.1
82-11-19	1415	3	5	1		.002	2	L2	-	11.5
82-12-15	1430	3	15	1		.004	L2	L2		12.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-27	1515	3	0	0	109	89.0	24.00	8.7	95.8	.9
82-02-18	1430	3	0	0	105	86.0	24.00	8.5	94.9	.7
82-03-24	1400	3	0	0	101	83.0	22.80	8.2	90.7	.8
82-04-28	1400	3	0	0	104	85.0	24.50	8.8	97.4	.7
82-05-27	1245	3	0	0	99	81.0	22.80	7.6	89.5	1.2
82-06-23	1345	3	0	0	88	72.0	20.20	6.9	78.9	.6
82-07-21	1330	3	0	0	89	73.0	19.20	6.5	74.7	.6
82-08-11	1130	3	0	0	88	72.0	20.10	6.9	78.6	.7
82-09-22	1315	3	0	0	96	79.0	22.20	7.8	87.5	.9
82-10-21	1345	3	0	0	101	83.0	23.00	7.7	89.1	1.1
82-11-19	1415	3	0	0	105	86.0	24.00	8.3	94.1	1.0
82-12-15	1430	3	0	0	101	83.0	21.60	7.8	86.1	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-27	1515	3	.3	.3	.07	4.	1.3	93.	-	.002
82-02-18	1430	3	.2	.3	L.05	5.	1.6	92.	--	L.001
82-03-24	1400	3	.2	.3	.07	4.	1.6	88.	--	.003
82-04-28	1400	3	.2	.3	L.05	5.	2.1	92.	-	L.001
82-05-27	1245	3	.4	.3	L.05	5.	2.8	89.	--	.001
82-06-23	1345	3	.2	.3	L.05	5.	3.2	80.	-	.001
82-07-21	1330	3	.2	.2	L.05	4.	3.0	78.	--	.002
82-08-11	1130	3	.2	.3	L.05	4.	2.9	78.	--	.002
82-09-22	1315	3	.1	.3	L.05	5.	1.8	85.	--	.002
82-10-21	1345	3	.3	.3	.11	5.	1.6	88.	-	.001
82-11-19	1415	3	.3	.3	.06	5.	1.6	92.	--	L.001
82-12-15	1430	3	.3	.4	L.05	5.	1.6	87.	--	L.001

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0005 LAT. 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-27	1515	3	L.003	L.003	L.006	.03	.06	.06	L.01	.06
82-02-18	1430	3	.003	L.003	L.006	.03	.06	.07	.05	.12
82-03-24	1400	3	.011	.003	.008	.04	.07	--	L.01	Q.08
82-04-28	1400	3	L.003	L.003	L.006	.06	.08	.08	.05	.13
82-05-27	1245	3	.003	L.003	L.006	.08	.13	.12	L.01	.12
82-06-23	1345	3	L.003	L.003	L.006	.13	.16	.17	L.01	.17
82-07-21	1330	3	.005	L.003	L.006	.12	.14	.14	L.01	.14
82-08-11	1130	3	.003	L.003	L.006	.09	.11	.12	L.01	.12
82-09-22	1315	3	L.003	L.003	L.006	.04	.07	.08	L.01	.08
82-10-21	1345	3	.007	.005	L.006	.03	.06	.06	L.01	.06
82-11-19	1415	3	.004	.003	L.006	.03	.08	.08	L.01	.08
82-12-15	1430	3	.005	L.003	L.006	.04	.09	.09	L.01	.09

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902I CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105I BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-27	1515	3	L.1	-	1.1	.21	1.3	L.02 05D	L.0005	L.0005
82-02-18	1430	3	L.1	-	1.2	.33	1.5	.02 05D	L.0005	L.0005
82-03-24	1400	3	L.1	-	.9	.25	1.2	.03 05D	L.0005	L.0005
82-04-28	1400	3	L.1		1.0	.28	1.3	.02 05D	L.0005	L.0005
82-05-27	1245	3	L.1		1.5	.25	1.8	.03 05D	L.0005	L.0005
82-06-23	1345	3	L.1	--	1.3	.27	1.6	.03 05D	L.0005	L.0005
82-07-21	1330	3	L.1	-	.8	.19	1.0	.03 05D	L.0005	L.0005
82-08-11	1130	3	L.1	--	1.0	.18	1.2	.04 05D	L.0005	L.0005
82-09-22	1315	3	L.1	--	.8	.14	.9	.02 05D	L.0005	L.0005
82-10-21	1345	3	L.1		1.0	.25	1.3	.02 05D	L.0005	L.0005
82-11-19	1415	3	L.1		1.0	.25	1.3	.03 05D	L.0005	L.0005
82-12-15	1430	3	L.1	-	1.3	.20	1.5	.05 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-27	1515	3	-			L.01	-	L.04	L.02	L.001
82-02-18	1430	3				L.01	-	L.04	L.02	L.001
82-03-24	1400	3			-	L.01	-	L.04	L.02	L.001
82-04-28	1400	3	-	-		L.01	-	L.04	L.02	L.001
82-05-27	1245	3			-	L.01		L.04	L.02	L.001
82-06-23	1345	3	-	-		L.01		L.04	L.02	L.001
82-07-21	1330	3	-	-		L.01	-	L.04	L.02	L.001
82-08-11	1130	3	-	-	-	L.01	--	L.04	L.02	L.001
82-09-22	1315	3	-	-	-	L.01	-	L.04	L.02	L.001
82-10-21	1345	3	--	-	--	L.01	--	L.04	--	L.001
82-11-19	1415	3	--	-	-	L.01	-	L.04	L.02	L.001
82-12-15	1430	3	-	--		L.01	--	L.04	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-27	1515	3	--	-	L.002	--	--	L.001	.12	L.004
82-02-18	1430	3	--	L.002	L.002	.002	.003	L.001	.10	L.004
82-03-24	1400	3	--	L.002	L.002	L.001	.011	L.001	.12	L.004
82-04-28	1400	3	--	L.002	L.002	.011	L.001	L.001	.08	L.004
82-05-27	1245	3	--	L.002	L.002	L.001	.001	L.001	.10	L.004
82-06-23	1345	3	--	L.002	L.002	.001	L.001	.003	.10	L.004
82-07-21	1330	3	--	L.002	.002	.001	--	.001	.08	L.004
82-08-11	1130	3	--	L.002	L.002	L.001	.002	L.001	.12	L.004
82-09-22	1315	3	--	L.002	L.002	L.001	L.001	L.001	.11	L.004
82-10-21	1345	3	-	L.002	L.002	L.001	L.001	L.001	.07	L.004
82-11-19	1415	3	--	L.002	L.002	L.001	L.001	L.001	.10	L.004
82-12-15	1430	3	--	.002	.002	L.001	.001	L.001	.10	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0005 LAT 49D 6M 50S LONG. 113D 50M 20S
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-27	1515	3	L .001	--	--	L .001	.006	L .001	L .001	L .002
82-02-18	1430	3	.001	--	--	L .001	.010	L .001	L .001	L .002
82-03-24	1400	3	L .001	--	--	L .001	.006	L .001	L .001	L .002
82-04-28	1400	3	L .001	--	--	L .001	.002	L .001	L .001	L .002
82-05-27	1245	3	L .001	--	--	L .001	.005	L .001	L .001	L .002
82-06-23	1345	3	L .001	--	--	L .001	.004	L .001	L .001	L .002
82-07-21	1330	3	.001	--	--	L .001	.002	L .001	L .001	L .002
82-08-11	1130	3	.001	--	--	L .001	.006	L .001	L .001	L .002
82-09-22	1315	3	.001	--	--	L .001	.009	L .001	L .001	L .002
82-10-21	1345	3	.002	--	--	L .001	.004	L .001	L .001	L .002
82-11-19	1415	3	.002	--	--	L .001	.004	L .001	L .001	L .002
82-12-15	1430	3	L .001	--	--	L .001	.006	.002	L .001	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-27	1515	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-02-18	1430	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-03-24	1400	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-28	1400	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-27	1245	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-23	1345	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-21	1330	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-11	1130	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-22	1315	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-21	1345	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-19	1415	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-12-15	1430	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-27	1515	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-02-18	1430	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-03-24	1400	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-04-28	1400	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-05-27	1245	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-06-23	1345	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-21	1330	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-08-11	1130	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-09-22	1315	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-10-21	1345	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-11-19	1415	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-12-15	1430	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-27	1515	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-02-18	1430	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-03-24	1400	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-04-28	1400	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-05-27	1245	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-06-23	1345	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-07-21	1330	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-08-11	1130	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-09-22	1315	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-10-21	1345	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-11-19	1415	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-12-15	1430	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0060 LAT 49D 3M 6S LONG 113D 41M 7S
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-27	1400	3	2.0	18.9	216.	226.	8.0	7.9	--	.8
82-02-18	1315	3	2.5	20.0	194.	200.	--	7.9	--	.8
82-03-24	1315	3	2.0	21.0	221.	224.	8.3	8.0	--	.6
82-04-28	1230	3	5.0	19.5	271.	255.	8.0	7.9	2.0	1.6
82-05-27	1130	3	4.0	20.2	159.	148.	8.0	7.9	18.0	8.4
82-06-23	1230	3	8.0	23.2	146.	134.	7.6	7.9	15.0	8.5
82-07-21	1230	3	13.0	23.4	167.	141.	7.7	8.1	2.0	1.1
82-08-11	1030	3	13.0	20.5	160.	148.	7.7	8.1	--	.7
82-09-22	1100	3	11.0	17.7	243.	227.	8.4	8.2	--	1.3
82-10-21	1230	3	7.0	16.8	--	201.	8.2	8.2	--	.3
82-11-19	1300	3	.0	18.8	206.	192.	7.9	8.1	1.8	.7
82-12-15	1215	3	1.0	7.3	--	199.	8.1	7.9	1.4	.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012I COLIFORMS FECAL MF NO/DL	36103I FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-27	1400	3	5	L1	--	.001	L1	L1	--	11.4
82-02-18	1315	3	5	2	--	.001	1	1	--	12.4
82-03-24	1315	3	5	1	--	L.001	L1	L1	--	11.8
82-04-28	1230	3	5	2	--	L.001	1	L1	--	10.5
82-05-27	1130	3	5	20	--	.001	6	6	--	11.0
82-06-23	1230	3	5	19	--	.003	8	6	--	10.0
82-07-21	1230	3	5	2	--	.001	--	6	--	9.0
82-08-11	1030	3	10	2	--	L.001	--	5	--	8.5
82-09-22	1100	3	5	L1 01R	--	L.001 17T	L2 02U	L1 12U	--	9.7
82-10-21	1230	3	15	L1	--	.001	L2	L2	--	9.9
82-11-19	1300	3	5	2	--	.001	L2	L2	--	12.3
82-12-15	1215	3	15	L1	--	L.001	L2	L2	--	11.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-27	1400	3	0	0	134.	110.0	27.20	12.2	118.2	1.4
82-02-18	1315	3	0	0	121.	99.0	26.00	10.7	109.0	1.1
82-03-24	1315	3	0	0	134.	110.0	28.90	12.7	124.5	1.4
82-04-28	1230	3	0.	0	152.	125.0	34.10	14.0	142.8	1.6
82-05-27	1130	3	0	0	91.	75.0	20.30	7.9	83.2	1.8
82-06-23	1230	3	0	0	84.	69.0	18.10	6.9	73.6	.7
82-07-21	1230	3	0	0	94.	77.0	18.90	7.8	79.3	.8
82-08-11	1030	3	0	0	93.	76.0	20.10	7.9	82.7	.7
82-09-22	1100	3	0	.0	143.	117.0	31.40	13.3	133.2	1.5
82-10-21	1230	3	0	0	128.	105.0	28.00	11.4	116.9	1.3
82-11-19	1300	3	0	0	128.	105.0	26.90	11.1	112.9	1.5
82-12-15	1215	3	0	0	138.	113.0	26.60	11.8	115.0	1.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-27	1400	3	.3	.3	.09	7	3.4	118	--	--
82-02-18	1315	3	.3	.3	L.05	7	3.4	108	--	--
82-03-24	1315	3	.3	.3	L.05	8.	3.6	121	--	--
82-04-28	1230	3	.3	.3	.08	12.	3.8	141	--	--
82-05-27	1130	3	.4	.2	L.05	5.	3.8	84.	--	--
82-06-23	1230	3	.2	.2	L.05	5	3.0	76	--	--
82-07-21	1230	3	.3	.2	L.05	4.	3.0	81	--	--
82-08-11	1030	3	.2	.3	L.05	4.	2.8	81.	--	--
82-09-22	1100	3	.3	.4	.06	12.	3.6	133.	--	--
82-10-21	1230	3	.3	.3	.08	9.	3.3	117.	--	--
82-11-19	1300	3	.3	.3	.08	7	3.2	114.	--	--
82-12-15	1215	3	.3	.3	L.05	7.	3.4	119	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AD0060 LAT 49D 3M 6S LONG. 113D 41M 7S
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-27	1400	3	L .003	L .003	L .006	11	12	13	L .01	13
82-02-18	1315	3	.003	L .003	L .006	10	16	12	L .01	13
82-03-24	1315	3	L .003	L .003	L .006	12	12	12	L .01	12
82-04-28	1230	3	.006	L .003	L .006	13	12	13	L .01	13
82-05-27	1130	3	.016	L .003	.014	11	14	14	.06	20
82-06-23	1230	3	.013	L .003	.011	14	15	16	.05	21
82-07-21	1230	3	.007	L .003	L .006	12	14	14	L .01	14
82-08-11	1030	3	.003	L .003	L .006	10	11	11	L .01	11
82-09-22	1100	3	L .003 06R	L .003 03V	L .006 01R	10 10V	11 51V	11 51R	L .01 02R	-
82-10-21	1230	3	.007	L .003	L .006	09	10	10	L .01	10
82-11-19	1300	3	.003	.003	L .006	09	11	10	L .01	10
82-12-15	1215	3	.003	L .003	L .006	[illegible]	14	14	L .01	14

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256P PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-27	1400	3	L 1	-	1 3	04	1 3	03 05D	L .0005	L .0005
82-02-18	1315	3	L 1	-	1 1	11	1 2	04 05D	L .0005	L .0005
82-03-24	1315	3	L 1		8	10	9	12 05D	L .0005	L .0005
82-04-28	1230	3	L 1	-	1 0	13	1 1	03 05D	L .0005	L .0005
82-05-27	1130	3	L 1	-	1 1	66	1 8	03 05D	L .0005	L .0005
82-06-23	1230	3	L 1		1 0	60	1 6	05 05D	L .0005	L .0005
82-07-21	1230	3	L 1		8	17	1 0	03 05D	L .0005	L .0005
82-08-11	1030	3	L 1	-	7	13	8	05 05D	L .0005	L .0005
82-09-22	1100	3	L 1 06W	--	6 04R	04 02R	6	03 05V	L .0005 04V	L .0005 02V
82-10-21	1230	3	L 1		1 2	58	1 8	03 05D	L .0005	L .0005
82-11-19	1300	3	L 1		6	15	8	03 05D	L .0005	L .0005
82-12-15	1215	3	L 1		5	05	6	05 05D	L .0005	L .0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-27	1400	3		--		L .01		L .04	L .02	--
82-02-18	1315	3		-	-	L .01	--	L .04	L .02	--
82-03-24	1315	3			-	L .01	-	L .04	L .02	
82-04-28	1230	3			--	L .01		L .04	L .02	-
82-05-27	1130	3			--	L .01		L .04	L .02	-
82-06-23	1230	3	--		-	L .01		L .04	L .02	--
82-07-21	1230	3			-	L .01	-	L .04	L .02	-
82-08-11	1030	3	-	-		L .01	-	L .04	L .02	--
82-09-22	1100	3		--		L .01 04I	--	L .04 04I	L .02 11W	--
82-10-21	1230	3	-	--	--	L .01	-	L .04	L .02	--
82-11-19	1300	3	-	-	-	L .01	--	L .04	L .02	--
82-12-15	1215	3	-	--	--	L .01	-	L .04	L .02	--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL). ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-27	1045	3	1.0	18.7	219.	214.	7.8	8.0	--	1.3
82-02-18	1045	3	1.5	20.0	218.	219.	8.0	7.8	--	1.2
82-03-24	1030	3	2.0	21.2	197.	197.	8.2	8.0	--	1.0
82-04-28	1000	3	5.0	20.9	240.	229.	8.3	8.1	9.0	4.5
82-05-27	0900	3	6.5	20.2	165.	149.	8.1	8.0	60.0	30.0
82-06-23	0945	3	12.0	23.0	151.	136.	7.6	8.1	20.0	9.1
82-07-21	1015	3	12.5	23.9	142.	124.	7.7	8.1	8.0	3.1
82-08-11	0815	3	16.5	21.4	160.	146.	7.8	8.2	--	.7
82-09-22	0815	3	11.0	19.3	178.	162.	8.2	8.2	--	1.8
82-10-21	1000	3	6.0	16.8	174.	162.	8.2	8.2	--	.8
82-11-19	1015	3	.0	18.0	197.	184.	7.9	8.1	4.4	1.8
82-12-15	1015	3	.5	7.5	199.	186.	8.1	8.0	1.5	.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-27	1045	3	10	11	--	.001	-	5	--	12.1
82-02-18	1045	3	10	2	--	.001	--	20	--	11.9
82-03-24	1030	3	5	1	--	L.001	6	5	--	12.2
82-04-28	1000	3	10	6	--	.004	-	15	--	11.2
82-05-27	0900	3	5	111	--	.004	170	140	--	10.2
82-06-23	0945	3	5	23	--	.009	28	20	--	9.5
82-07-21	1015	3	5	3	--	L.001	-	14	--	8.8
82-08-11	0815	3	5	2	--	.001	-	36	--	7.9
82-09-22	0815	3	5	2	--	.003	--	22	--	9.4
82-10-21	1000	3	15	2	-	.001	6	4	--	10.3
82-11-19	1015	3	5	3	--	.001	4	4	--	11.5
82-12-15	1015	3	15	11		.001	14	6		12.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-27	1045	3	0	0	128.	105.0	26.50	9.9	106.9	2.2
82-02-18	1045	3	0	0	128.	105.0	28.70	10.7	115.7	2.8
82-03-24	1030	3	0	0	122.	100.0	26.60	9.9	107.2	2.4
82-04-28	1000	3	0	0	140.	115.0	31.80	11.8	128.0	3.0
82-05-27	0900	3	0	0	93.	76.0	22.20	7.4	85.9	1.4
82-06-23	0945	3	0.	0	85.	70.0	19.50	6.4	75.0	.9
82-07-21	1015	3	0.	0	85.	70.0	18.10	6.2	70.7	1.0
82-08-11	0815	3	0.	0	89.	73.0	20.90	6.8	80.2	.9
82-09-22	0815	3	0.	0	104.	85.0	23.90	8.2	93.4	1.7
82-10-21	1000	3	0.	0	104.	85.0	23.70	7.7	90.9	1.6
82-11-19	1015	3	0.	0	118.	97.0	26.50	9.2	104.1	2.0
82-12-15	1015	3	0.	0	122.	100.0	26.20	9.8	105.8	1.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-27	1045	3	.4	4	.10	6	3.0	111.	-	.001
82-02-18	1045	3	1.1	7	L.05	8	3.2	118.	-	.001
82-03-24	1030	3	.6	4	L.05	6	2.8	109.	--	.002
82-04-28	1000	3	.8	.5	.05	9	3.6	129.	-	.001
82-05-27	0900	3	.4	.3	L.05	5	3.2	86.	--	L.001
82-06-23	0945	3	.2	.3	L.05	5	2.8	78.	-	.001
82-07-21	1015	3	.2	.2	L.05	4.	2.8	75.	--	L.001
82-08-11	0815	3	.3	.3	L.05	4.	3.3	80.	--	.002
82-09-22	0815	3	.2	.3	L.05	5	2.3	93.	--	.002
82-10-21	1000	3	.3	.2	.06	5	2.6	93.		.001
82-11-19	1015	3	.3	.3	.06	6	3.0	106.	--	L.001
82-12-15	1015	3	.4	.4	L.05	6	3.3	108.	--	.003

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL). ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-27	1045	3	003	L 003	L 006	05	10	11	L 01	11
82-02-18	1045	3	029	020	009	09	24	26	L 01	26
82-03-24	1030	3	003	L 003	L 006	08	12	11	L 01	11
82-04-28	1000	3	011	L 003	009	05	13	13	05	18
82-05-27	0900	3	071	L 003	069	07	12	12	12	24
82-06-23	0945	3	016	L 003	014	08	10	10	05	15
82-07-21	1015	3	011	L 003	009	08	10	09	L 01	09
82-08-11	0815	3	003	003	L 006	13	15	10	L 01	10
82-09-22	0815	3	L 003	L 003	L 006	03	07	06	L 01	06
82-10-21	1000	3	004	L 003	L 006	02	06	06	L 01	06
82-11-19	1015	3	003	L 003	L 006	04	08	09	L 01	09
82-12-15	1015	3	003	L 003	L 006	05	10	10	L 01	10

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902I CARBON ORGANIC PARTICUL C MG/L	06002I CARBON TOTAL ORGANIC (CALCD.) MG/L	05105I BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-27	1045	3	L 1	--	1 4	06	1 5	03 05D	L 0005	L 0005
82-02-18	1045	3	L 1		3 0	26	3 3	04 05D	L 0005	L 0005
82-03-24	1030	3	L 1		1 3	14	1 4	03 05D	L 0005	L 0005
82-04-28	1000	3	L 1		2 1	45	2 6	03 05D	L 0005	L 0005
82-05-27	0900	3	L 1		1 4	1 60	3 0	02 05D	L 0005	L 0005
82-06-23	0945	3	L 1	--	1 1	62	1 7	03 05D	L 0005	L 0005
82-07-21	1015	3	L 1	--	7	24	9	03 05D	L 0005	L 0005
82-08-11	0815	3	L 1	--	1 6	12	1 1	05 05D	L 0005	L 0005
82-09-22	0815	3	L 1		8	19	1 0	02 05D	L 0005 04L	L 0005 02I
82-10-21	1000	3	L 1	--	1 1	19	1 3	03 05D	L 0005	L 0005
82-11-19	1015	3	L 1		9	28	1 2	02 05D	L 0005	L 0005
82-12-15	1015	3	L 1		?	08	8	05 05D	L 0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	13302P ALUMINUM EXTRBLE AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-27	1045	3				L 01		L 04	L 02	L 001
82-02-18	1045	3		--		L 01		L 04	L 02	L 001
82-03-24	1030	3	--	--	--	L 01		L 04	L 02	L 001
82-04-28	1000	3	--	--		L 01		04	L 02	L 001
82-05-27	0900	3		--	--	L 01	--	L 04	L 02	004
82-06-23	0945	3	--	--	--	L 01	--	L 04	L 02	L 001
82-07-21	1015	3		--		L 01		L 04	L 02	001
82-08-11	0815	3	--	--	--	L 01	--	L 04	L 02	L 001
82-09-22	0815	3	--	--	--	L 01	--	L 04	L 02	L 001
82-10-21	1000	3	--	--	--	L 01	--	L 04	L 02	L 001
82-11-19	1015	3	--	--	--	L 01	--	L 04	L 02	L 001
82-12-15	1015	3	--	--	--	L 01	--	L 04	L 02	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-27	1045	3	--	--	L 002	--	--	L 001	14	L 004
82-02-18	1045	3		L 002	L 002	001	007	L 001	12	L 004
82-03-24	1030	3	--	L 002	L 002	L 001	011	L 001	15	L 004
82-04-28	1000	3	--	L 002	L 002	008	002	L 001	13	L 004
82-05-27	0900	3	--	L 002	L 002	030	005	L 001	13	L 004
82-06-23	0945	3	--	L 002	L 002	001	L 001	L 001	11	L 004
82-07-21	1015	3	--	L 002	L 002	001	009	L 001	10	L 004
82-08-11	0815	3	--	L 002	L 002	L 001	015	L 001	12	L 004
82-09-22	0815	3	--	L 002	L 002	L 001	004	L 001	11	L 004
82-10-21	1000	3	--	L 002	L 002	L 001	L 001	L 001	10	L 004
82-11-19	1015	3	--	L 002	L 002	L 001	002	L 001	10	L 004
82-12-15	1015	3	--	L 002	L 002	001	009	L 001	10	L 004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AE0001 LAT. 49D 0M 10S LONG. 113D 18M 50S
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL). ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-27	1045	3	L.001	--	--	L.001	.009	L.001	L.001	L.002
82-02-18	1045	3	.003	--	--	L.001	.009	L.001	L.001	L.002
82-03-24	1030	3	L.001	--	--	L.001	.007	L.001	L.001	L.002
82-04-28	1000	3	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-05-27	0900	3	.001	--	--	L.001	.005	L.001	L.001	L.002
82-06-23	0945	3	.001	--	--	L.001	.005	L.001	L.001	L.002
82-07-21	1015	3	.002	--	--	L.001	.005	L.001	L.001	L.002
82-08-11	0815	3	.002	--	--	L.001	.008	.001	L.001	L.002
82-09-22	0815	3	.001	--	--	L.001	.007	L.001	L.001	L.002
82-10-21	1000	3	.001	--	--	L.001	.002	L.001	L.001	L.002
82-11-19	1015	3	.001	--	--	L.001	.002	L.001	L.001	L.002
82-12-15	1015	3	.011	--	--	L.001	002	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-27	1045	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-18	1045	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-24	1030	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-28	1000	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-27	0900	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-23	0945	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-21	1015	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-11	0815	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-22	0815	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-21	1000	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-19	1015	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-15	1015	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-27	1045	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-18	1045	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-24	1030	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-28	1000	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-27	0900	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-23	0945	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-21	1015	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-11	0815	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-22	0815	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-21	1000	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-19	1015	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-15	1015	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-27	1045	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-18	1045	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-24	1030	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-28	1000	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-27	0900	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-23	0945	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-21	1015	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-11	0815	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-22	0815	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-21	1000	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-19	1015	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-15	1015	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-25	1215	479	1.0	21.4	560.	538	7.5	7.4	--	1.3
82-02-16	1245	479	2.0	19.0	492.	500.	7.6	7.5	--	1.6
82-03-22	1200	479	2.0	22.3	444.	455.	8.0	7.8	--	2.5
82-04-26	1230	479	11.5	22.8	487	470.	8.5	8.4	31.0	18.0
82-05-25	1120	479	16.5	25.1	282.	250.	8.0	8.0	110.0	59.0
82-06-21	1145	479	21.0	19.5	224.	317.	7.9	8.2	140.0	83.0
82-07-19	1130	479	20.0	21.0	284	270.	8.3	8.4	64.0	22.0
82-08-09	1130	479	19.0	20.6	300	289.	8.3	8.6	--	3.2
82-09-20	1140	479	13.0	16.3	410	370.	8.5	8.5	--	2.9
82-10-19	1330	479	4.0	6.4	346.	303.	8.5	8.4	--	6.5
82-11-15	1115	479	1.5	21.0	362.	347.	8.2	8.2	10.0	4.6
82-12-13	1145	479	1.5	7.6	448.	416.	8.1	8.0	2.5	1.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012I COLIFORMS FECAL MF NO/DL	36103I FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-25	1215	479	10.	1	--	.002	--	--	26	3.4
82-02-16	1245	479	10	11	--	005	--	114	12.	6.9
82-03-22	1200	479	10	4	--	006	4100.	234.	G160	10.2
82-04-26	1230	479	10	40.	--	.020	120.	60.	60	10.7
82-05-25	1120	479	20.	161.	--	.020	800.	190.	190	7.5
82-06-21	1145	479	5.	209	--	.007	700.	200	125	8.1
82-07-19	1130	479	5	62	-	L 001	--	80.	130	8.2
82-08-09	1130	479	10.	2.	--	001	--	20	45	7.5
82-09-20	1140	479	10	2. 01R	--	.001 17I	195 02U	4 12U	89 03U	9.1
82-10-19	1330	479	10.	10	-	007	150	6.	G800	11.4
82-11-15	1115	479	5	7.	--	.010	180.	17.	980	13.6
82-12-13	1145	479	10.	2	-	003	440.	118.	510	12.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-25	1215	479	0	0	252	207.0	60.90	21.9	242.2	29.0
82-02-16	1245	479	0	.0	232	190.0	58.20	20.5	229.7	22.0
82-03-22	1200	479	0	.0	183	150.0	46.20	18.1	189.9	25.0
82-04-26	1230	479	1.	.5	194	160.0	48.80	19.0	200.1	26.0
82-05-25	1120	479	0	.0	134	110.0	34.20	10.3	127.8	9.0
82-06-21	1145	479	0	.0	118	97.0	27.40	8.6	103.8	4.1
82-07-19	1130	479	3	2.3	135	115.0	32.10	11.9	129.2	9.2
82-08-09	1130	479	3	2.7	121.	105.0	27.40	13.7	124.8	14.0
82-09-20	1140	479	2	1.5	155	130.0	35.20	17.6	160.4	24.0
82-10-19	1330	479	1	9	156	130.0	38.10	14.6	155.2	13.0
82-11-15	1115	479	0.	.0	171.	140.0	41.40	15.7	168.0	16.0
82-12-13	1145	479	0.	.0	210	172.0	50.50	18.3	201.4	19.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-25	1215	479	2.3	16.0	19	70.	4.0	328.	--	--
82-02-16	1245	479	1.9	9.4	.14	64	4.0	294	-	--
82-03-22	1200	479	2.7	6.8	.15	76	2.0	267		--
82-04-26	1230	479	3.0	5.8	.13	82.	.2	281	--	--
82-05-25	1120	479	1.1	1.3	.11	26.	4.4	152.	--	--
82-06-21	1145	479	.6	1.0	10	15.	3.4	118	--	--
82-07-19	1130	479	.9	2.0	11	26	1.0	152	--	--
82-08-09	1130	479	1.2	3.3	12	38.	.2	161	--	--
82-09-20	1140	479	1.8	7.6	.11	61.	.1	225.	--	--
82-10-19	1330	479	1.2	3.9	.11	43.	.2	192.	--	--
82-11-15	1115	479	1.3	4.9	.-15	42	1.3	207.	--	--
82-12-13	1145	479	1.6	7.3	12	53.	1.1	254.	--	--

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG. 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-25	1215	479	.300	.280	.020	.49	1.30	1.30	.07	1.40
82-02-16	1245	479	.250	.240	.010	.58	1.00	1.00	L.01	1.00
82-03-22	1200	479	.110	.095	.015	.30	.54	.52	.10	.62
82-04-26	1230	479	.120	.039	.081	.05	.24	.23	.34	.57
82-05-25	1120	479	.180	.025	.160	.14	.28	.24	.46	.70
82-06-21	1145	479	.210	.012	.200	.10	.15	.14	.44	.58
82-07-19	1130	479	.061	.010	.051	.03	.12	.11	14	.25
82-08-09	1130	479	.016	.007	.009	.02	.16	.15	.04	.19
82-09-20	1140	479	.009 06R	.004 03V	L.006 01R	.01 10V	.16 51V	.15 51P	.04 02R	-
82-10-19	1330	479	.053	.031	.022	L.01	.12	.11	.10	.21
82-11-15	1115	479	.055	.022	.033	.01	.12	.13	.10	.23
82-12-13	1145	479	.088	.063	025	19	.47	44	L.01	.44

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-25	1215	479	L.1	--	2.2	.39	2.6	.08 05D	L.0005	.0012
82-02-16	1245	479	L.1		2.4	.30	2.7	.10 05D	.0007	L.0005
82-03-22	1200	479	.1	--	3.8	.47	4.3	.06 05D	.0006	.0008
82-04-26	1230	479	L.1	--	4.0	1.90	5.9	.05 05D	.0005	.0008
82-05-25	1120	479	L.1	--	3.4	4.10	7.5	.08 05D	.0007	.0005
82-06-21	1145	479	L.1	--	1.9	4.90	6.8	.06 05D	L.0005	L.0005
82-07-19	1130	479	L.1	--	1.6	1.20	2.8	L.02 05D	L.0005	L.0005
82-08-09	1130	479	L.1	--	2.4	.24	2.6	.02 05D	L.0005	L.0005
82-09-20	1140	479	L.1 06W	--	2.5 04R	.25 02R	2.8	.03 05V	.0006 04I	L.0005 02L
82-10-19	1330	479	L.1	--	1.8	.66	2.5	.03 05D	L.0005	L.0005
82-11-15	1115	479	L.1	--	1.7	1.70	3.4	.04 05D	L.0005	.0005
82-12-13	1145	479	.3		1.7	.21	1.8	.07 05D	L.0005	.0005 02I

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-25	1215	479	-	L.004	--	.01	-	L.04	L.02	L.001
82-02-16	1245	479	-	--		L.01		L.04	L.02	-
82-03-22	1200	479	-	--	--	.01	--	L.04	L.02	--
82-04-26	1230	479	-	--	--	L.01	--	.04	L.02	--
82-05-25	1120	479	-	L.004	--	L.01	-	L.04	L.02	.009
82-06-21	1145	479	-	-		L.01	-	L.04	L.02	--
82-07-19	1130	479	--	--	-	.01	-	L.04	L.02	--
82-08-09	1130	479	--	L.004	--	.02	--	L.04	L.02	L.001
82-09-20	1140	479	--	--	--	L.01 04I	--	L.04 04I	L.02 11W	-
82-10-19	1330	479	--	L.004	--	.01	--	L.04	L.02	L.001
82-11-15	1115	479	--	--	--	L.01	--	L.04	L.02	--
82-12-13	1145	479	--	-	--	L.01	--	L.04	L.02	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-25	1215	479	--	L.002	L.002	.001	.008	L.001	.13	L.004
82-05-25	1120	479	--	L.002	.007	.005	.015	L.001	.15	L.004
82-08-09	1130	479	--	L.002	.002	L.001	.004	L.001	.12	L.004
82-10-19	1330	479	--	L.002	L.002	.001	.002	L.001	.11	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AG0001   LAT. 49D 57M 38S LONG. 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500F N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-25	1215	479	L.001	--	--	L.001	.004	L.001	L.001	L.002
82-02-16	1245	479	.001	--	--	--	--	--	--	--
82-03-22	1200	479	.002	--	--	--	--	--	--	--
82-04-26	1230	479	L.001	--	--	--	--	--	--	--
82-05-25	1120	479	L.001	--	--	L.001	.003	L.001	L.001	L.002
82-06-21	1145	479	.004	--	--	--	--	--	--	--
82-07-19	1130	479	.002	--	--	--	--	--	--	--
82-08-09	1130	479	L.001	--	--	L.001	.003	L.001	L.001	L.002
82-09-20	1140	479	.005 35H	--	--	--	--	--	--	--
82-10-19	1330	479	.001	--	--	L.001	.002	L.001	L.001	L.002
82-11-15	1115	479	.001	--	--	--	--	--	--	--
82-12-13	1145	479	L.001	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-25	1215	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-25	1120	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-09	1130	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-19	1330	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-25	1215	479	L.002	L.0020	L.001	L.003	L.002	L.2	.007	L.009
82-05-25	1120	479	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-08-09	1130	479	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-10-19	1330	479	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-25	1215	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-05-25	1120	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-08-09	1130	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-10-19	1330	479	L.004	L.002	L.004		L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-25	1215	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-05-25	1120	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-09	1130	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-19	1330	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AG0001 LAT. 49D 57M 38S LONG. 112D 5M 3S
OLDMAN RIVER AT HWY 36 NORTH OF TABER. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-25	1215	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-05-25	1120	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-09	1130	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-19	1330	479	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-19	0950	462	.0	20.7	621.	592.	7.8	7.6	--	3.0
82-02-09	0940	462	.0	18.4	504.	493.	7.8	7.5	2.2	3.0
82-03-16	1030	462	1.5	22.0 61R	408.	404 41R	7.8	7.5 01R	--	25.0 73R
82-04-20	0840	462	2.0	22.8	402.	397.	8.3	7.7	180.0	75.0
82-05-11	0850	462	9.0	20.7	386.	364.	8.9	8.5	23.0	23.0
82-06-15	0745	462	19.5	23.9	316	288.	8.2	8.1	190.0	100.0
82-07-13	0745	462	21.5	27.3	306	293.	8.7	8.7	37.0	38.0
82-08-24	0840	462	16.5	23.2 61R	391	334 41R	8.6	8.7 01R	3.0	1.8 73R
82-09-21	0810	462	11.5	21.2	407.	369	8.4	8.5	3.0	3.4
82-10-19	0845	462	4.5	12.4	433	392	8.5	8.4	10.0	11.0
82-11-09	0930	462	.0	14.5	378.	349	8.3	8.2	19.0	19.0
82-12-14	0915	462	0	6.9	464	421.	8.1	7.8	2.9	3.5

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103I FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-19	0950	462	10	5	3.	.005	102.	36.	--	5.5
82-02-09	0940	462	10.	1	11.	001	210.	80	--	8.9
82-03-16	1030	462	20. 21R	36. 01R	30 01R	.010 17T	1060.	320. 12U	--	10.8
82-04-20	0840	462	10.	224	208	030	3700.	130.	--	12.2
82-05-11	0850	462	10	42.	35.	050	105	15.	--	12.3
82-06-15	0745	462	20.	258.	238.	020	500	155.	--	7.8
82-07-13	0745	462	10	84	77	050	20.	16.	--	9.2
82-08-24	0840	462	10. 21R	4 01R	3. 01R	004 17T	4 02U	4. 12U	--	8.4
82-09-21	0810	462	10.	4.	3.	002	--	14.	--	9.5
82-10-19	0845	462	5.	16.	14	009	--	4	--	11.4
82-11-09	0930	462	10	30	28	007	200.	2.	--	13.3
82-12-14	0915	462	5	5	3	.002	550	62	--	13.8

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602I HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103I SODIUM DISSOLVED NA MG/L
82-01-19	0950	462	0	0	277	227.0	76.80	25.4	296.3	21.0
82-02-09	0940	462	0.	.0	226	185.0	64.20	20.2	243.5	12.0
82-03-16	1030	462	0.	0 51R	165	135.0 01R	46.10 03R	15.1 02R	177.3	17.0 03R
82-04-20	0840	462	0	.0	134	110.0	39.00	13.8	154.2	26.0
82-05-11	0850	462	5	4.0	143	125.0	38.70	16.0	162.5	18.0
82-06-15	0745	462	0	0	146.	120.0	36.90	12.1	142.0	9.2
82-07-13	0745	462	7.	5.5	127.	115.0	35.30	12.8	140.8	8.5
82-08-24	0840	462	4	3.1 51R	127	110.0 01R	30.50 03R	18.1 02R	150.7	20.0 03R
82-09-21	0810	462	2	2.0	141	120.0	32.10	18.4	155.9	27.0
82-10-19	0845	462	1	1.0	162.	135.0	39.00	17.9	171.1	23.0
82-11-09	0930	462	0	.0	165.	135.0	38.80	14.3	155.8	13.0
82-12-14	0915	462	0.	.0	201	165.0	54.50	18.4	211.8	14.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-19	0950	462	2.4	12.0	.27	86.	3.8	364.	--	.005
82-02-09	0940	462	1.6	7.9	.18	64.	4.4	285.	--	.005
82-03-16	1030	462	3.2 03R	7.5 06R	.15 05R	58. 06R	3.0 05R	231.	--	.013 04W
82-04-20	0840	462	2.9	7.8	.16	74.	3.0	233.	--	.006
82-05-11	0850	462	2.0	7.2	.12	60.	.1	217.	--	002
82-06-15	0745	462	1.4	2.2	.10	32.	3.2	169.	--	.003
82-07-13	0745	462	1.1	2.5	.12	34.	1.9	165.	--	.002
82-08-24	0840	462	1.9 03R	5.3 06R	.18 05R	68. 06R	.3 05R	210.	--	.002 04W
82-09-21	0810	462	2.2	7.0	.15	68.	.1	227.	--	003
82-10-19	0845	462	6.0	6.7	.13	73.	.1	247.	--	--
82-11-09	0930	462	1.5	5.3	.18	50.	.5	204.	--	.003
82-12-14	0915	462	1.6	7.7	.13	59.	2.1	256.	--	.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-19	0950	462	.190	.170	.020	1.60	2.50	2.50	.05	2.60
82-02-09	0940	462	.190	.180	.010	1.60	1.90	1.90	L.01	1.90
82-03-16	1030	462	.240 06R	.170 03V	.070	1.50 10V	1.60 51V	1.60 51R	.26 02R	1.90
82-04-20	0840	462	.360	.068	.290	.68	.91	.97	.76	1.70
82-05-11	0850	462	.120	.005	.120	L.01	.16	.15	.38	.53
82-06-15	0745	462	.290	.017	.270	.13	.23	.27	.59	.86
82-07-13	0745	462	.120	.007	.110	L.01	.12	.13	.42	.55
82-08-24	0840	462	.015 06R	.005 03V	.010 01R	L.01 10V	.25 51V	.25 51R	.25 02R	--
82-09-21	0810	462	.014	L.003	.012	L.01	.21	.20	.07	.27
82-10-19	0845	462	.032	.005	.027	L.01	.17	.18	.14	.32
82-11-09	0930	462	.068	.020	.048	.74	.85	.90	.15	1.10
82-12-14	0915	462	.049	.036	.013	.90	1.30	1.30	.05	1.30

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-19	0950	462	L.1	.170	2.6	.26	2.9	.15 05D	.0006	L.0005
82-02-09	0940	462	L.1	.170	2.4	.22	2.6	.13 05D	.0007	L.0005
82-03-16	1030	462	.5 06W	.150 56V	3.8 04R	1.50 02R	5.3	.16 05V	.0006 04V	L.0005 02V
82-04-20	0840	462	.2	.060	3.3	5.40	8.7	.11 05D	.0005	.0005
82-05-11	0850	462	L.1	L.003	8.6	3.40	12.0	.06 05D	.0005	L.0005
82-06-15	0745	462	L.1	L.003	2.7	4.70	7.4	.05 05D	L.0005	L.0005
82-07-13	0745	462	L.1	L.003	2.3	2.90	5.2	.02 05D	.0005	L.0005
82-08-24	0840	462	L.1 06W	L.003 56V	3.4 04R	.31 02R	3.7	.04 05V	.0006 04V	L.0005 02V
82-09-21	0810	462	L.1	L.003	3.1	.29	3.4	.03 05D	L.0005	L.0005
82-10-19	0845	462	L.1	L.003	2.8	.92	3.7	.04 05D	L.0005	L.0005
82-11-09	0930	462	L.1	.017	1.9	1.30	3.2	.04 05D	L.0005	L.0005
82-12-14	0915	462	L.1	.036	1.5	.31	1.8	.08 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-19	0950	462	L.06		--	L.01	-	L.04	L.02	L.001
82-02-09	0940	462	.09	-		L.01	--	L.04	L.02	L.001
82-03-16	1030	462	.21 02W	-	-	L.01 04T	--	L.04 04T	L.02 11W	.003 20W
82-04-20	0840	462	.36	--	--	L.01	--	L.04	.02	.018
82-05-11	0850	462	.22		--	L.01	--	L.04	L.02	L.001
82-06-15	0745	462	.88	-	--	.01	--	L.04	L.02	.015
82-07-13	0745	462	.32	-	--	L.01	--	L.04	L.02	.005
82-08-24	0840	462	.02 02W	-	-	L.01 04T	--	L.04 04T	L.02 11W	L.001 20W
82-09-21	0810	462	.10	-	--	L.01	--	L.04	L.02	L.001
82-10-19	0845	462	.24	--	--	L.01	--	L.04	L.02	L.001
82-11-09	0930	462	.15	--	--	L.01	--	L.04	L.02	.001
82-12-14	0915	462	.10	--	--	L.01	--	L.04	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-19	0950	462	L.015	L.002	.002	L.001	.010	L.001	.11	L.004
82-02-09	0940	462	L.015	--	L.002	--	--	L.001	.09	L.004
82-03-16	1030	462	L.015 02W	L.002 20W	L.002 20W	.003 20W	.008 20W	L.001 20W	.08 20W	L.004 20W
82-04-20	0840	462	L.015	.002	.058	.010	.018	.003	.18	.005
82-05-11	0850	462	L.015	L.002	L.002	.004	.002	L.001	.08	L.004
82-06-15	0745	462	L.015	L.002	.012	.014	.026	L.001	.16	.004
82-07-13	0745	462	L.015	L.002	.004	.004	.007	L.001	.08	L.004
82-08-24	0840	462	L.015 02W	L.002 20W	L.002 20W	.001 20W	.009 20W	L.001 20W	.08 20W	L.004 20W
82-09-21	0810	462	L.015	L.002	L.002	.001	.003	L.001	.08	L.004
82-10-19	0845	462	L.015	L.002	L.002	.003	L.001	L.001	.08	L.004
82-11-09	0930	462	L.015	L.002	L.002	.001	.005	L.001	.07	L.004
82-12-14	0915	462	L.015	L.002	L.002	.001	.003	L.001	.07	L.004

STATION - 00AL05AK0001 LAT. 50D 44M 15S LONG. 110D 5M 44S
SOUTH SASKATCHEWAN RIVER AT HWY 41. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-19	0950	462	L.001	L1.0	L1.0	L.001	L.001	L.001	L.001	L.002
82-02-09	0940	462	.001	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-03-16	1030	462	.002 35W	L1.0 00W	L1.0 10W	L.001 11R	.004 75R	L.001 70R	L.001 30R	L.002 10R
82-04-20	0840	462	.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-05-11	0850	462	L.001	L1.0	L1.0	L.001	.005	L.001	L.001	L.002
82-06-15	0745	462	.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-07-13	0745	462	.001	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-08-24	0840	462	.002 35W	L1.0 00W	L1.0 10W	L.001 11R	.004 75R	.001 70R	L.001 30R	L.002 10R
82-09-21	0810	462	.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-10-19	0845	462	.001	--	--	L.001	.005	L.001	L.001	L.002
82-11-09	0930	462	L.001	--	--	L.001	.002	.002	L.001	L.002
82-12-14	0915	462	L.001	--	--	L.001	L.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-19	0950	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-09	0940	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-16	1030	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-04-20	0840	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-11	0850	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-15	0745	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-13	0745	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-24	0840	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-09-21	0810	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-19	0845	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-09	0930	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-14	0915	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-19	0950	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-02-09	0940	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-03-16	1030	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.200 00W	L.009 50W
82-04-20	0840	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-05-11	0850	462	L.002	L.0020	L.001	L.003	L.002	L.2	.030	L.009
82-06-15	0745	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-07-13	0745	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-08-24	0840	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.100 00W	L.009 50W
82-09-21	0810	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009
82-10-19	0845	462	L.002	L.0020	L.001	L.003	L.002	L.2	.030	L.009
82-11-09	0930	462	L.002	L.0020	L.001	L.003	L.002	L.2	.050	L.009
82-12-14	0915	462	L.002	L.0020	L.001	L.003	L.002	L.2	.100	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-19	0950	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-09	0940	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-16	1030	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-04-20	0840	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-11	0850	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-15	0745	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-13	0745	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-24	0840	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-09-21	0810	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-19	0845	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-09	0930	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-14	0915	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BA0011 LAT. 51D 26M 35S LONG. 116D 12M 42S
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	1520	417	.0	17.6	178.	171.	8.0	8.0	L.1	.6
82-02-02	1345	417	.0	21.0	179.	176.	8.1	8.0	L.1	.3
82-03-23	1345	417	.0	20.5	181.	180.	8.1	8.0	-	.5
82-04-06	1215	417	.5	20.8	188.	184.	8.1	8.0	--	.3
82-05-04	1245	417	.5	20.5	196.	196.	8.2	8.0	.7	.5
82-06-08	1045	417	4.0	20.7	156.	140.	8.1	8.1	.7	.6
82-07-06	1120	417	9.0	20.2	150.	133.	8.3	8.1	3.6	3.3
82-08-18	1045	417	9.5	19.0	155.	146.	8.2	8.1	3.4	3.3
82-09-14	1120	417	5.0	22.0	152.	143.	7.7	8.1	5.2	5.0
82-10-04	1115	417	2.5	16.7	159.	148.	8.0	8.1	2.0	3.0
82-11-03	1200	417	.0	18.2	165.	157.	8.0	8.0	.7	1.0
82-12-07	1300	417	0	18.0	178.	173.	8.0	8.0	.4	1.5

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-12	1520	417	5	L1	--	.001	1	L1	L1	12.2
82-02-02	1345	417	5	L1	--	L.001	L1.	L1	L1	--
82-03-23	1345	417	5	L1	--	L.001	L1.	L1	L1.	12.4
82-04-06	1215	417	5.	L1	--	L.001	L1.	L1.	L1.	11.5
82-05-04	1245	417	5.	1.	-	L.001	L1.	L1	L1	11.8
82-06-08	1045	417	5	1	-	.001	L1.	L1.	L1	10.8
82-07-06	1120	417	15	2	-	.001	L1	L1	L1	9.8
82-08-18	1045	417		1 01R	--	.001 171	2. 02U	1. 12U	23. 03U	9.4
82-09-14	1120	417	5.	1	-	L.001	L1.	L1.	7.	10.4
82-10-04	1115	417	5.	3	-	.004	2	2	7.	11.9
82-11-03	1200	417	5.	L1	--	.001	L1	L1.	L1.	13.2
82-12-07	1300	417	5.	L1	-	L.001	L1	L1	6.	10.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-12	1520	417	0	0	102	84.0	23.70	9.1	96.6	6
82-02-02	1345	417	0.	0	99	81.0	23.10	9.4	96.4	6
82-03-23	1345	417	0	0	101	83.0	22.20	9.5	94.5	7
82-04-06	1215	417	0.	0	104	85.0	23.80	9.3	97.7	5
82-05-04	1245	417	0.	0	111	91.0	24.80	10.0	103.1	9
82-06-08	1045	417	0	0	87	71.0	19.90	7.8	81.8	7
82-07-06	1120	417	0.	0	81	66.0	18.20	7.8	77.6	.8
82-08-18	1045	417	0.	0	83	68.0	19.00	8.0	80.4	.5
82-09-14	1120	417	0	0	85.	70.0	21.30	7.9	85.7	5
82-10-04	1115	417	0	0	87	71.0	20.00	7.5	80.8	5
82-11-03	1200	417	0	0	94	77.0	19.50	7.7	80.4	5
82-12-07	1300	417	0	0	101	83.0	22.90	9.0	94.2	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	1520	417	.2	.3	.07	10.	2.9	97.	--	--
82-02-02	1345	417	.2	.3	L.05	11.	2.8	96	-	
82-03-23	1345	417	.2	.3	L.05	12.	2.8	98	-	-
82-04-06	1215	417	.2	.3	L.05	12.	2.6	100	--	
82-05-04	1245	417	.3	.7	L.05	10.	3.4	105.	--	-
82-06-08	1045	417	.2	.3	L.05	8.	2.6	82	--	--
82-07-06	1120	417	.3	.4	L.05	8	2.3	77	--	--
82-08-18	1045	417	.2	.3	L.05	8	2.2	79.	--	--
82-09-14	1120	417	.2	.3	L.05	8.	2.2	82.	--	--
82-10-04	1115	417	.3	.3	L.05	8.	2.5	82	-	
82-11-03	1200	417	.2	.3	.05	9.	2.7	86.	--	--
82-12-07	1300	417	.2	.3	L.05	10.	3.0	96.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BA0011 — LAT 51D 26M 35S LONG. 116D 12M 42S
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-12	1520	417	L.003	L.003	L.006	.09	.09	.10	L.01	.10
82-02-02	1345	417	L.003	L.003	L.006	.08	.09	.09	L.01	.09
82-03-23	1345	417	L.003	L.003	L.006	.09	.09	.09	L.01	.09
82-04-06	1215	417	L.003	L.003	L.006	.09	.09	.09	L.01	.09
82-05-04	1245	417	L.003	L.003	L.006	.08	.10	.12	L.01	.12
82-06-08	1045	417	.020	L.003	.018	.06	.08	.08	L.01	.08
82-07-06	1120	417	L.003	L.003	L.006	.04	.06	.07	L.01	.07
82-08-18	1045	417	L.003 06R	L.003 03V	L.006 01R	.04 10V	--	.06 51R	L.01 02R	--
82-09-14	1120	417	L.003	L.003	L.006	.05	.05	.06	L.01	.06
82-10-04	1115	417	.009	L.003	.007	.05	.07	.07	L.01	.07
82-11-03	1200	417	L.003	L.003	L.006	.06	.07	.07	L.01	.07
82-12-07	1300	417	L.003	L.003	L.006	.07	.08	.08	L.01	.08

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	1520	417	L.1	--	.6	.03	.6	.05 05D	L.0005	L.0005
82-02-02	1345	417	L.1	--	.7	.03	.7	.02 05D	L.0005	L.0005
82-03-23	1345	417	L.1	--	.7	.04	.7	.03 05D	L.0005	L.0005
82-04-06	1215	417	L.1	--	.8	.02	.8	.02 05D	L.0005	L.0005
82-05-04	1245	417	L.1	--	1.6	.08	1.7	.03 05D	L.0005	L.0005
82-06-08	1045	417	L.1	--	1.2	.10	1.3	.02 05D	L.0005	L.0005
82-07-06	1120	417	L.1	--	.9	.19	1.1	.02 05D	L.0005	L.0005
82-08-18	1045	417	L.1 06W	--	1.0 04R	.15 02R	1.2	.03 05V	L.0005 04V	L.0005 02V
82-09-14	1120	417	L.1	--	.8	.21	1.0	L.02 05D	L.0005	L.0005
82-10-04	1115	417	L.1	--	.9	.09	1.0	L.02 05D	L.0005	L.0005
82-11-03	1200	417	L.1	--	1.5	.04	1.5	.04 05D	L.0005	L.0005
82-12-07	1300	417	L.1	--	.5	.12	.6	.05 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	1520	417	--	--	--	L.01	--	L.04	L.02	--
82-02-02	1345	417	--	--	--	L.01	--	L.04	L.02	--
82-03-23	1345	417	--	--	--	L.01	--	L.04	L.02	--
82-04-06	1215	417	--	--	--	L.01	--	L.04	L.02	--
82-05-04	1245	417	--	--	--	.01	--	L.04	L.02	--
82-06-08	1045	417	--	--	--	L.01	--	L.04	L.02	--
82-07-06	1120	417	--	--	--	L.01	--	L.04	L.02	--
82-08-18	1045	417	--	--	--	L.01 04T	--	L.04 04T	L.02 11W	--
82-09-14	1120	417	--	--	--	L.01	--	L.04	.02	--
82-10-04	1115	417	--	--	--	L.01	--	L.04	L.02	--
82-11-03	1200	417	--	--	--	L.01	--	L.04	L.02	--
82-12-07	1300	417	--	--	--	.01	--	L.04	L.02	--

FOOTNOTE L LESS THAN DETECTION LIMIT — G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION — G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BB0009 LAT. 51D 9M 42S LONG. 115D 40M 13S
BREWSTER CREEK AT HWY 1 NEAR MOUTH, BANFF NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-13	0915	3	.0	21.7	379.	379	8.2	8.2	.2	.4
82-02-02	1520	3	.0	21.1	380	374	8.3	8.2	.3	1.6
82-03-23	1530	3	1.0	20.4	379.	376	8.3	8.2	--	.2
82-04-06	1400	3	1.0	20.8	390	379.	8.3	8.2	--	.5
82-05-04	1410	3	3.5	20.7	389.	381.	8.3	8.2	.4	.3
82-06-08	1200	3	5.0	20.8	282.	261	8.2	8.2	.6	.5
82-07-06	1250	3	6.5	20.0	213.	219.	8.3	8.1	--	.7
82-08-18	1230	3	7.5	18.7	295.	272	8.4	8.2	L.1	.3
82-09-14	1330	3	4.0	22.3	299.	279	8.1	8.2	L.1	2.2
82-10-05	1250	3	2.5	17.0	319.	295	8.2	8.2	6	.5
82-11-03	1340	3	1.5	18.1	338.	322	8.3	8.2	L.1	.8
82-12-07	1500	3	0	18.0	359	334	8.2	8.2	L.1	.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-13	0915	3	10.	11	--	L.001	L1.	11.	--	--
82-02-02	1520	3	5	1	-	L.001	L1	11	--	-
82-03-23	1530	3	5	11	-	L.001	L1	L1.	--	12.0
82-04-06	1400	3	5.	11.	--	L.001	L1	L1.	--	11.4
82-05-04	1410	3	5.	1	--	001	L1	L1	--	11.2
82-06-08	1200	3	5.	1	-	L.001	L1.	L1	-	11.0
82-07-06	1250	3	15	1.	--	L.001	1	1	-	10.8
82-08-18	1230	3	10	1.	--	L.001	L1	L1	--	10.4
82-09-14	1330	3	5.	3	--	L.001	L1	L1	--	10.8
82-10-05	1250	3	5	11.	-	L.001	1	L1.	-	12.3
82-11-03	1340	3	5.	1	-	L.001	L1	L1	--	13.1
82-12-07	1500	3	5	3	--	L.001	L1.	L1	-	10.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-13	0915	3	0	0	154	126.0	53.10	16.1	198.9	5
82-02-02	1520	3	0	0	152	125.0	53.60	16.7	202.6	.6
82-03-23	1530	3	0	0	152	125.0	53.90	16.9	204.2	.7
82-04-06	1400	3	0.	0	152	125.0	55.20	16.7	206.6	5
82-05-04	1410	3	0	0	152	125.0	54.10	16.6	203.4	8
82-06-08	1200	3	0.	.0	140	115.0	37.80	11.4	141.3	.5
82-07-06	1250	3	0	.0	121	99.0	33.40	10.0	124.6	4
82-08-18	1230	3	0.	0	140	115.0	42.20	12.5	156.8	5
82-09-14	1330	3	0	0	146	120.0	44.50	12.9	164.2	.5
82-10-05	1250	3	0.	0	146	120.0	43.60	14.9	170.2	.5
82-11-03	1340	3	0	0	146	120.0	44.40	14.7	171.4	5
82-12-07	1500	3	0	0	156.	128.0	51.10	15.6	191.8	.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-13	0915	3	.3	.5	.24	70	4.0	220	--	--
82-02-02	1520	3	4	.5	.22	68.	4.2	219	--	--
82-03-23	1530	3	.3	.8	.22	72.	3.8	223.	-	--
82-04-06	1400	3	3	.5	16	74	3.6	226.	--	--
82-05-04	1410	3	.3	1.2	.15	72	3.8	224.	-	--
82-06-08	1200	3	.3	.4	.15	24.	3.6	147	--	--
82-07-06	1250	3	.3	.4	.14	18	3.2	125.	--	--
82-08-18	1230	3	3	.3	.17	33.	3.4	161.	--	-
82-09-14	1330	3	.3	4	.21	37.	3.6	171.	--	--
82-10-05	1250	3	.3	.5	.29	44	3.6	179.		-
82-11-03	1340	3	.3	.4	.25	52.	3.8	188.	--	--
82-12-07	1500	3	.3	.5	.20	62.	4.1	211.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BB0009 LAT. 51D 9M 42S LONG. 115D 40M 13S
BREWSTER CREEK AT HWY 1 NEAR MOUTH. BANFF NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-13	0915	3	L.003	L.003	L.006	.12	.13	13	L.01	13
82-02-02	1520	3	.006	.005	L.006	.13	.14	14	L.01	14
82-03-23	1530	3	.090	L.003	088	12	.13	13	L.01	13
82-04-06	1400	3	.027	L.003	025	.12	.12	12	L.01	.12
82-05-04	1410	3	L.003	L.003	L.006	12	.13	13	L.01	.13
82-06-08	1200	3	004	L.003	L.006	.09	.11	11	L.01	11
82-07-06	1250	3	L.003	L.003	L.006	05	07	07	L.01	.07
82-08-18	1230	3	L.003	L.003	L.006	07	.09	11	L.01	.11
82-09-14	1330	3	.003	L.003	L.006	.08	.09	10	L.01	10
82-10-05	1250	3	L.003	L.003	L.006	09	10	10	L.01	10
82-11-03	1340	3	L.003	L.003	L.006	.10	10	10	L.01	.10
82-12-07	1500	3	L.003	L.003	L.006	.11	.12	12	L.01	.12

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-13	0915	3	L.1	--	1.1	.03	1.1	02 05D	L.0005	0007
82-02-02	1520	3	L.1	--	.9	04	.9	03 05D	L.0005	L.0005
82-03-23	1530	3	L.1	--	.8	04	.8	03 05D	L.0005	.0008
82-04-06	1400	3	L.1	--	.8	03	.8	03 05D	L.0005	.0009
82-05-04	1410	3	L.1	--	1.1	05	1.2	03 05D	L.0005	0008
82-06-08	1200	3	L.1	--	1.4	11	1.5	03 05D	L.0005	L.0005
82-07-06	1250	3	L.1	--	1.3	08	1.4	02 05D	L.0005	L.0005
82-08-18	1230	3	L.1	--	1.1	02	1.1	03 05D	L.0005	L.0005
82-09-14	1330	3	L.1	--	.8	05	.9	02 05D	L.0005	L.0005
82-10-05	1250	3	L.1	--	1.0	05	1.1	02 05D	L.0005	0006
82-11-03	1340	3	L.1	--	1.4	02	1.4	05 05D	L.0005	0007
82-12-07	1500	3	L.1		.6	05	.7	05 05D	L.0005	0008

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-13	0915	3	-			L.01	-	L.04	L.02	--
82-02-02	1520	3			-	L.01	--	L.04	L.02	--
82-03-23	1530	3		--	-	L.01	-	L.04	L.02	-
82-04-06	1400	3	-	--	--	L.01	--	L.04	L.02	--
82-05-04	1410	3	-		--	L.01	--	L.04	L.02	--
82-06-08	1200	3		--	-	L.01	--	L.04	L.02	--
82-07-06	1250	3	--	--	--	L.01	--	L.04	L.02	--
82-08-18	1230	3	--	-	-	L.01	--	L.04	L.02	--
82-09-14	1330	3	-		--	L.01	--	L.04	04	--
82-10-05	1250	3	--	--	--	L.01	--	L.04	L.02	--
82-11-03	1340	3	-	--	--	L.01	-	L.04	L.02	--
82-12-07	1500	3	--	-	-	L.01	-	L.04	L.02	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-13	1100	417	.5	21.7	339.	341	8.0	8.0	.2	1.5
82-02-03	0900	417	0	21.0	351.	340	8.0	8.0	--	.5
82-03-24	0910	417	5	20.4	345.	345	8.1	8.1	--	.8
82-04-07	0900	417	.0	21.0	355.	334.	8.2	8.0	--	.6
82-05-05	0915	417	3.0	20.7	353	342.	8.3	8.1	1.0	1.0
82-06-09	0840	417	5.0	21.3	245	234	8.2	8.1	1.8	.8
82-07-07	0845	417	7.5	19.3	213	199.	8.3	8.1	3.8	3.2
82-08-19	0840	417	8.5	18.7	239.	221	8.3	8.1	2.7	2.5
82-09-15	0830	417	5.0	22.0	240	225.	7.8	8.1	1.0	1.6
82-10-06	0845	417	2.5	17.5	272.	250.	8.0	8.1	.6	1.0
82-11-04	0845	417	1.0	18.2	301	287.	8.2	8.1	.5	1.0
82-12-08	0915	417	0	15.5	333	298.	8.1	8.0	2.0	7

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-13	1100	417	L5	4	--	001	160	12	2	11.7
82-02-03	0900	417	5	11 01R	--	L 001 171	840 02U	6 12U	8 03U	-
82-03-24	0910	417	5	11	--	L 001	58.	6	2	12.2
82-04-07	0900	417	5	L1.	--	001	4	2	L2	11.5
82-05-05	0915	417	5.	3.	--	001	22	L2	2	11.1
82-06-09	0840	417	5	2.	--	001	38	10	4	10.4
82-07-07	0845	417	L5	16	-	L 001	440	4.	L2	10.2
82-08-19	0840	417		1		001	3900	510	60	9.5
82-09-15	0830	417	5.	1	-	001	24.	L2	110	10.2
82-10-06	0845	417	5	2	--	L 001	4.	L2	6	11.7
82-11-04	0845	417	5	2		001	122.	L2	23	12.5
82-12-08	0915	417	5	8.		L 001	90	4	14	9.7

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-13	1100	417	0	0	156	128.0	46.20	15.8	180.4	1.5
82-02-03	0900	417	0	0	159	130.0	45.50	16.4	181.1	1.5
82-03-24	0910	417	0	0	159	130.0	47.60	16.8	188.0	1.9
82-04-07	0900	417	0	0	152.	125.0	46.20	15.8	180.4	1.7
82-05-05	0915	417	0	0	152.	125.0	46.50	16.5	184.0	1.9
82-06-09	0840	417	0	0	122	100.0	31.90	11.1	125.4	1.1
82-07-07	0845	417	C	0	107	88.0	28.10	10.1	111.8	8
82-08-19	0840	417	0.	0	117	96.0	31.00	11.2	123.5	1.1
82-09-15	0830	417	0	0	120	98.0	33.20	11.7	131.1	1.1
82-10-06	0845	417	0	0	128	105.0	35.00	12.7	139.7	1.1
82-11-04	0845	417	0	0	140	115.0	36.80	12.8	144.6	1.5
82-12-08	0915	417	0	0	151	124.0	42.00	14.7	165.4	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-13	1100	417	4	1.7	16	46	4.8	193.	-	.003
82-02-03	0900	417	.5	1.7	11	47	4.5	195	-	L.001
82-03-24	0910	417	.5	1.9	14	48	4.4	199	-	.001
82-04-07	0900	417	4	1.7	08	48	4.1	193	-	.002
82-05-05	0915	417	4	2.1	.08	50	4.0	196	--	L.001
82-06-09	0840	417	4	.9	08	24	3.7	133.	-	L.001
82-07-07	0845	417	4	.7	07	18	3.4	114.	--	L.001
82-08-19	0840	417	.3	.8	08	23	3.1	128.	--	L.001
82-09-15	0830	417	.3	.8	L.05	22.	3.3	131	-	L.001
82-10-06	0845	417	4	1.1	08	30	3.6	147	-	.004
82-11-04	0845	417	4	1.3	.15	38	3.9	164	--	L.001
82-12-08	0915	417	4	1.6	.12	40	4.6	180	--	L.001

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-13	1100	417	.020	.011	.009	.12	.18	.17	L.01	.17
82-02-03	0900	417	.016 06R	.015 03V	L.006 01R	.14 10V	.20 51V	.18 51R	L.01 02R	-
82-03-24	0910	417	.026	.021	L.006	.12	.16	.18	L.01	.18
82-04-07	0900	417	.027	.015	.012	.12	.18	.17	L.01	.17
82-05-05	0915	417	.019	.010	.009	.10	.15	.15	L.01	.15
82-06-09	0840	417	.008	L.003	.006	.07	.09	.10	L.01	.10
82-07-07	0845	417	.007	L.003	.005	.05	.07	.10	L.01	.10
82-08-19	0840	417	.012	.006	.006	.05	.07	.07	.03	.10
82-09-15	0830	417	.009	.003	.006	.06	.07	.08	L.01	.08
82-10-06	0845	417	.011	.010	L.006	.06	.08	.08	L.01	.08
82-11-04	0845	417	.011	.009	L.006	.09	.10	.10	L.01	.10
82-12-08	0915	417	.017	.013	L.006	.12	.14	.14	L.01	.14

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-13	1100	417	L.1	--	.9	.41	1.3	.03 05D	L.0005	L.0005
82-02-03	0900	417	L.1 06W	--	1.0 04R	.12 02R	1.1	.05 05V	L.0005 04V	L.0005 02V
82-03-24	0910	417	.1	--	1.0	.16	1.2	.03 05D	L.0005	.0006
82-04-07	0900	417	L.1	--	.9	.17	1.1	.04 05D	L.0005	L.0005
82-05-05	0915	417	L.1	--	1.7	.22	1.9	.03 05D	L.0005	L.0005
82-06-09	0840	417	L.1		1.3	.20	1.5	.05 05D	L.0005	L.0005
82-07-07	0845	417	L.1		1.2	.39	1.6	.03 05D	L.0005	L.0005
82-08-19	0840	417	L.1	-	1.0	.25	1.3	.04 05D	L.0005	L.0005
82-09-15	0830	417	L.1	-	.8	.23	1.0	L.02 05D	L.0005	L.0005
82-10-06	0845	417	L.1		.9	.21	1.1	.03 05D	L.0005	L.0005
82-11-04	0845	417	L.1	-	1.7	.08	1.8	.04 05D	L.0005	L.0005
82-12-08	0915	417	L.1	-	.5	.13	.6	.05 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-13	1100	417				L.01	-	L.04	L.02	L.001
82-02-03	0900	417	--			L.01 04T		L.04 04T	L.02 11W	L.001 20W
82-03-24	0910	417	-	-	--	L.01	-	L.04	L.02	L.001
82-04-07	0900	417			-	L.01		.04	L.02	L.001
82-05-05	0915	417			-	L.01	-	L.04	L.02	L.001
82-06-09	0840	417		-	-	L.01		L.04	L.02	L.001
82-07-07	0845	417		-	-	L.01	-	L.04	L.02	L.001
82-08-19	0840	417			--	L.01	-	L.04	L.02	L.001
82-09-15	0830	417	-	-	-	L.01		L.04	L.02	L.001
82-10-06	0845	417		--	--	L.01	-	L.04	L.02	L.001
82-11-04	0845	417	--	--	--	L.01	-	L.04	L.02	L.001
82-12-08	0915	417	--	-	--	L.01	--	L.04	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-13	1100	417	--	L.002	.003	L.001	.007	L.001	L.05	L.004
82-02-03	0900	417	--		L.002 20W		-	L.001 20W	L.05 20W	L.004 20W
82-03-24	0910	417	--	L.002	L.002	L.001	.005	L.001	L.05	L.004
82-04-07	0900	417	-	L.002	L.002	.002	L.001	L.001	L.05	L.004
82-05-05	0915	417	--	L.002	L.002	L.001	.001	L.001	L.05	L.004
82-06-09	0840	417	--	L.002	L.002	.001	.009	L.001	L.05	L.004
82-07-07	0845	417	--	L.002	L.002	L.001	.004	L.001	L.05	L.004
82-08-19	0840	417	--	L.002	.002	L.001	.004	L.001	L.05	L.004
82-09-15	0830	417	--	L.002	.013	L.001	.004	L.001	L.05	L.004
82-10-06	0845	417	--	L.002	--	-		L.001	L.05	L.004
82-11-04	0845	417	--	L.002	L.002	.001	.004	L.001	L.05	L.004
82-12-08	0915	417	--	L.002	L.002	L.001	.001	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BE0013 LAT. 51D 7M 22S LONG. 115D 23M 12S
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-13	1100	417	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-02-03	0900	417	L.001 35W	--	--	L.001 11R	L.001 75R	L.001 70R	L.001 30R	L.002 10R
82-03-24	0910	417	.001	--	--	L.001	L.001	L.001	L.001	L.002
82-04-07	0900	417	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-05-05	0915	417	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-06-09	0840	417	L.001	--	--	L.001	.001	L.001	L.001	L.002
82-07-07	0845	417	.001	--	--	L.001	.001	L.001	L.001	L.002
82-08-19	0840	417	L.001	--	--	L.001	.001	L.001	L.001	L.002
82-09-15	0830	417	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-10-06	0845	417	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-11-04	0845	417	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-12-08	0915	417	.001	--	--	L.001	L.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-13	1100	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-03	0900	417	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-03-24	0910	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-07	0900	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-05	0915	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-09	0840	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-07	0845	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-19	0840	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-15	0830	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-06	0845	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-04	0845	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-08	0915	417	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-13	1100	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-03	0900	417	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-03-24	0910	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-07	0900	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-05	0915	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-09	0840	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-07	0845	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-19	0840	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-15	0830	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-06	0845	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-04	0845	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-08	0915	417	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-13	1100	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-03	0900	417	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-03-24	0910	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-07	0900	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-05	0915	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-09	0840	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-07	0845	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-19	0840	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-15	0830	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-06	0845	417	L.004	L.002	L.004	.2	L.002	L.002	L.005	L.002
82-11-04	0845	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-08	0915	417	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BH0017 LAT. 51D 10M 26S LONG. 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-13	1300	479	1.0	21.7	339.	341.	8.1	8.2	--	1.1
82-03-29	1145	479	2.0	22.9	313.	318	8.1	8.2	--	1.0
82-04-26	0840	479	.5	23.2	327.	321.	--	8.1	1.8	2.0
82-05-17	0845	479	5.0	23.1	343.	330.	8.4	8.3	1.1	1.4
82-06-09	1030	479	10.0	21.4	284.	260.	8.3	8.3	1.5	3.8
82-07-07	1035	479	10.5	19.6	248.	232.	8.2	8.2	3.6	3.8
82-08-19	1045	479	13.5	20.2	260.	236	8.4	8.3	.9	1.0
82-09-15	1020	479	7.0	22.5	275.	252.	8.1	8.3	.6	1.0
82-10-06	1100	479	5.5	17.6	296.	267.	8.1	8.3	.8	.8
82-11-04	1045	479	4.0	19.6	297.	275.	8.3	8.3	.9	1.5
82-12-08	1100	479	.0	18.6	309.	293.	8.1	8.3	.8	1.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-13	1300	479	5.	L1.	--	.004	2.	2.	L2	12.0
82-03-29	1145	479	10	2. 01R	--	.001 17T	4. 02U	2. 12U	570 03U	12.5
82-04-26	0840	479	10	3.	--	.004	20	4	4.	12.7
82-05-17	0845	479	5.	1	-	.005	36.	30	14.	11.4
82-06-09	1030	479	10.	6.	--	.002	10.	6	10.	10.2
82-07-07	1035	479	L5.	4.	-	001	98.	6.	4	10.1
82-08-19	1045	479	10	1	-	002	4	2.	L2	9.2
82-09-15	1020	479	5.	L1.	--	001	3300.	4	34.	10.4
82-10-06	1100	479	5.	2.	-	L.001	32	2	152	11.6
82-11-04	1045	479	5.	L1	--	.001	4.	L2	10	12.3
82-12-08	1100	479	5.	L1.	--	002	L2.	L2	32	10.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-13	1300	479	0.	0	167	137.0	49.40	14.4	182.6	1.4
82-03-29	1145	479	0	0	159	130.0	47.60	13.4	174.0	1.9
82-04-26	0840	479	0	0	165	135.0	47.50	13.3	173.4	3.5
82-05-17	0845	479	0.	0	171.	140.0	48.10	13.6	176.1	3.8
82-06-09	1030	479	0.	.0	140	115.0	38.80	11.9	145.9	1.9
82-07-07	1035	479	0	0	122	100.0	33.90	10.9	129.5	1.4
82-08-19	1045	479	0	.0	128	105.0	35.60	11.5	136.2	1.2
82-09-15	1020	479	0.	0	140.	115.0	37.50	12.2	143.9	2.0
82-10-06	1100	479	0.	0	146.	120.0	39.00	12.7	149.7	2.0
82-11-04	1045	479	0.	.0	146	120.0	39.80	12.8	152.1	1.5
82-12-08	1100	479	0.	.0	152	125.0	44.40	13.3	165.6	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-13	1300	479	.5	1.3	.20	49.	5.0	203.	--	--
82-03-29	1145	479	1.1	1.5	.15	34.	3.8	181.	--	--
82-04-26	0840	479	1.4	2.6	15	30	4.0	183.	-	--
82-05-17	0845	479	8	2.1	17	36.	2.8	191.	--	--
82-06-09	1030	479	.5	1.3	11	28.	3.6	155.	--	--
82-07-07	1035	479	.5	.9	.10	21	3.6	132	--	--
82-08-19	1045	479	.3	.8	10	25	3.2	141	--	--
82-09-15	1020	479	.4	1.0	.09	25	3.1	150.	--	--
82-10-06	1100	479	.5	1.4	.10	28.	3.5	159.	--	--
82-11-04	1045	479	.4	1.0	16	31.	3.1	162	--	--
82-12-08	1100	479	.4	1.2	.12	36.	3.5	175	--	--

STATION - 00AL05BH0017 LAT. 51D 10M 26S LONG. 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-13	1300	479	L.003	L.003	L.006	.10	.12	.12	L.01	.12
82-03-29	1145	479	.017 06R	.008 03V	.009 01R	.09 10V	.27 51V	.23 51R	.06 02R	--
82-04-26	0840	479	.011	L.003	.009	.06	.17	.18	.06	.24
82-05-17	0845	479	.007	.004	.009	.02	.07	.07	.04	.11
82-06-09	1030	479	.014	L.003	.012	.05	.11	.10	.04	.14
82-07-07	1035	479	.004	L.003	L.006	.05	.08	.08	L.01	.08
82-08-19	1045	479	.008	.006	L.006	.03	.07	.08	.02	.10
82-09-15	1020	479	L.003	L.003	L.006	.03	.06	.06	L.01	.06
82-10-06	1100	479	.012	.007	L.006	.03	.07	.07	L.01	.07
82-11-04	1045	479	.004	.003	L.006	.04	.07	.07	L.01	.07
82-12-08	1100	479	.006	L.003	L.006	.07	.08	.09	.02	.11

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-13	1300	479	L.1	--	1.0	.10	1.1	.04 05D	L.0005	L.0005
82-03-29	1145	479	L.1 06W	--	3.5 04R	.31 02R	3.8	.04 05V	L.0005 04V	.0005 02V
82-04-26	0840	479	L.1	--	3.1	.35	3.5	.04 05D	L.0005	L.0005
82-05-17	0845	479	L.1	--	2.1	.33	2.4	.02 05D	L.0005	L.0005
82-06-09	1030	479	L.1	--	2.3	.48	2.8	.04 05D	L.0005	L.0005
82-07-07	1035	479	L.1	--	1.4	.24	1.6	.03 05D	L.0005	L.0005
82-08-19	1045	479	L.1	--	1.2	.16	1.4	.04 05D	L.0005	L.0005
82-09-15	1020	479	L.1	--	.9	.18	1.1	.02 05D	L.0005	L.0005
82-10-06	1100	479	L.1	--	1.5	.16	1.7	.03 05D	L.0005	L.0005
82-11-04	1045	479	L.1	--	1.6	.11	1.7	.03 05D	L.0005	L.0005
82-12-08	1100	479	L.1	--	.7	.19	.9	.05 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-13	1300	479		L.004	--	L.01	--	L.04	L.02	L.001
82-03-29	1145	479	--	--	--	L.01 04I	--	L.04 04I	L.02 11W	--
82-04-26	0840	479		--	--	L.01	--	.04	L.02	
82-05-17	0845	479	--	.010	--	L.01	--	L.04	L.02	L.001
82-06-09	1030	479	--	--	--	L.01	--	L.04	L.02	--
82-07-07	1035	479	--	--	--	L.01	--	L.04	L.02	--
82-08-19	1045	479	--	L.004	--	L.01	--	L.04	L.02	L.001
82-09-15	1020	479	--	--	--	L.01	--	L.04	L.02	--
82-10-06	1100	479	--	L.004	--	L.01	--	L.04	L.02	L.001
82-11-04	1045	479	--	--	--	L.01	--	L.04	L.02	--
82-12-08	1100	479	--	--	--	L.01	--	L.04	L.02	--

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-13	1300	479	--	L.002	.002	L.001	.003	L.001	L.05	L.004
82-05-17	0845	479	--	L.002	L.002	L.001	.002	L.001	.06	L.004
82-08-19	1045	479	--	L.002	L.002	L.001	--	L.001	L.05	L.004
82-10-06	1100	479	--	L.002	--	--	--	L.001	L.05	.005

STATION - 00AL05BH0017 LAT. 51D 10M 26S LONG. 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-13	1300	479	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-03-29	1145	479	.003 35W	--	--	--	--	--	--	--
82-04-26	0840	479	.001	--	--	--	--	--	--	--
82-05-17	0845	479	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-06-09	1030	479	.001	--	--	--	--	--	--	--
82-07-07	1035	479	L.001	--	--	--	--	--	--	--
82-08-19	1045	479	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-09-15	1020	479	.001	--	--	--	--	--	--	--
82-10-06	1100	479	L.001	--	--	L.001	.002	L.001	L.001	L.002
82-11-04	1045	479	L.001	--	--	--	--	--	--	--
82-12-08	1100	479	L.001	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-13	1300	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-17	0845	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-19	1045	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-06	1100	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-13	1300	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-17	0845	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-19	1045	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-06	1100	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-13	1300	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-05-17	0845	479	L.004	L.002	L.004		L.002	L.002	L.005	L.002
82-08-19	1045	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-10-06	1100	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-13	1300	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-05-17	0845	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-19	1045	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-06	1100	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BH0017 LAT. 51D 10M 26S LONG 114D 28M 0S
BOW RIVER AT COCHRANE, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-13	1300	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-05-17	0845	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-19	1045	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-06	1100	479	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BN0001
BOW RIVER NEAR MOUTH, ALBERTA

LAT. 50D 2M 47S LONG. 111D 35M 26S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-25	1415	479	1.0	21.3	444	442.	7.8	7.5	--	1.9
82-02-16	1420	479	2.0	18.9	411	422	7.5	7.5	--	4.1
82-03-22	1345	479	2.5	22.2	397.	413	7.7	7.5	--	2.7
82-04-26	1430	479	9.0	22.3	337.	336	8.1	7.9	92.0	270.0
82-05-25	1300	479	18.5	24.7	327	310.	8.9	9.0	5.4	3.6
82-06-21	1330	479	24.0	20.1	319.	294	7.9	8.0	130.0	--
82-07-19	1330	479	23.5	20.4	294.	272	8.8	8.8	18.0	5.0
82-08-09	1345	479	19.5	20.9	310	295	8.3	8.7	--	3.8
82-09-20	1415	479	15.0	13.9	336	333.	8.7	8.5	--	2.4
82-10-19	1510	479	5.0	4.8	368	332	8.5	8.4	--	7.5
82-11-15	1315	479	2.0	21.0	406	400.	8.3	8.2	--	2.4
82-12-13	1400	479	0	7.0	407	388	7.9	7.9	5.0	2.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-25	1415	479	10	3	--	.003	63	43.	8	11.0
82-02-16	1420	479	10.	7	-	.003	10	9	3	11.5
82-03-22	1345	479	10.	6.		.004	74.	72	G160.	10.6
82-04-26	1430	479	10.	334.	-	.020	-	75	60.	11.0
82-05-25	1300	479	20.	5	--	.007	7	1	12	10.0
82-06-21	1330	479	5.	97	-	.030	--	24	1780	7.4
82-07-19	1330	479	10	29	--	.020	-	8	132	9.6
82-08-09	1345	479	10.	7.	-	.003	-	20	G160	7.9
82-09-20	1415	479	20	3.	-	.003	--	--	146.	10.3
82-10-19	1510	479	10	17	--	.010	--	24	159	11.9
82-11-15	1315	479	5	3	--	.001	4	2.	23.	13.7
82-12-13	1400	479	15	7 01R	-	.002 171	6 02U	5. 12U	88 03U	13.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103F CALCIUM DISSOLVED CA MG/L	12102F MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103F SODIUM DISSOLVED NA MG/L
82-01-25	1415	479	0	0	200.	164.0	56.80	16.9	211.4	8.0
82-02-16	1420	479	0	0	195	160.0	58.20	17.8	218.6	8.3
82-03-22	1345	479	0.	.0	171	140.0	50.90	15.5	190.9	13.0
82-04-26	1430	479	0	0	146	120.0	43.00	12.9	160.5	9.1
82-05-25	1300	479	9	7.5	98	95.0	31.90	14.9	141.0	17.0
82-06-21	1330	479	0	.0	146	120.0	39.10	11.1	143.3	5.0
82-07-19	1330	479	8	7.0	105	100.0	29.10	13.1	126.6	10.0
82-08-09	1345	479	5	3.8	119	105.0	30.20	14.9	136.8	11.0
82-09-20	1415	479	4	3.3	120	105.0	30.20	16.3	142.5	13.0
82-10-19	1510	479	1.	9	150	125.0	41.00	15.5	166.2	12.0
82-11-15	1315	479	0	.0	183	150.0	52.20	17.5	202.4	12.0
82-12-13	1400	479	0	0	191	157.0	54.30	16.8	204.8	8.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-25	1415	479	1.4	6.2	.23	50	4.9	243.	--	--
82-02-16	1420	479	1.3	6.4	.16	50.	4.8	243	--	--
82-03-22	1345	479	2.2	10.0	.17	48	4.2	228	-	--
82-04-26	1430	479	2.1	6.2	.14	44.	2.9	192.	--	--
82-05-25	1300	479	1.4	5.8	.15	56.	2	184	--	-
82-06-21	1330	479	8	2.2	.13	32	4.0	166	--	--
82-07-19	1330	479	1.0	3.2	.14	38	1.1	0155	--	--
82-08-09	1345	479	1.5	3.7	.15	47	.4	172	--	--
82-09-20	1415	479	1.4	5.0	.15	48.	2	177	--	-
82-10-19	1510	479	1.5	5.4	.13	52	5	203	--	--
82-11-15	1315	479	1.6	6.8	.21	53	7	234.	--	--
82-12-13	1400	479	1.3	6.2	.14	50	3.0	234	--	--

STATION - 00AL05BN0001 BOW RIVER NEAR MOUTH, ALBERTA   LAT. 50D 2M 47S LONG. 111D 35M 26S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-25	1415	479	.180	170	.010	1.30	2.10	2.00	.03	2.00
82-02-16	1420	479	.220	.220	L.006	.66	2.00	1.90	05	1.90
82-03-22	1345	479	.250	.230	.020	1.70	1.90	1.80	.09	1.90
82-04-26	1430	479	.320	.062	.260	.80	.96	1.00	.67	1.70
82-05-25	1300	479	.055	022	.033	01	.23	21	.16	.37
82-06-21	1330	479	.190	.058	130	40	.49	.47	.50	.97
82-07-19	1330	479	053	009	.044	L.01	16	17	.23	.40
82-08-09	1345	479	038	018	020	L.01	.22	23	.05	.28
82-09-20	1415	479	006	005	L.006	L.01	.19	.20	.06	.26
82-10-19	1510	479	.037	008	.029	40	.54	.54	.16	.70
82-11-15	1315	479	.078	070	008	1.50	1.70	1.60	L.01	1.60
82-12-13	1400	479	089 06R	075 03V	.014 01R	90 10V	1.20 51V	1.10 51R	L.01 02R	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-25	1415	479	L 1	--	1.5	30	1.8	.11 05D	L.0005	.0012
82-02-16	1420	479	L 1	--	1.6	45	2.1	.12 05D	.0005	.0006
82-03-22	1345	479	6	--	2.6	51	3.1	.15 05D	.0005	L.0005
82-04-26	1430	479	4	-	2.6	6.30	8.9	.16 05D	.0005	L.0005
82-05-25	1300	479	L 1	--	3.2	90	4.1	.04 05D	0006	L.0005
82-06-21	1330	479	1	-	2.2	4.80	7.0	.05 05D	L.0005	L.0005
82-07-19	1330	479	L 1	--	2.2	1.80	4.0	L.02 05D	L.0005	L.0005
82-08-09	1345	479	L 1	--	3.1	31	3.4	03 05D	0005	L.0005
82-09-20	1415	479	L 1	--	3.9	30	4.2	03 05D	L.0005	L.0005
82-10-19	1510	479	L 1	-	2.1	.96	3.1	04 05D	L.0005	L.0005
82-11-15	1315	479	4	--	1.9	92	2.8	06 05D	L.0005	L.0005
82-12-13	1400	479	4 06W	-	1.3 04R	36 02R	1.7	11 05V	L.0005 04V	L.0005 02V

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-25	1415	479		L.004	-	L.01	-	L.04	L.02	L.001
82-02-16	1420	479				L.01	-	L.04	L.02	-
82-03-22	1345	479	-	--	-	L.01	-	L.04	L.02	-
82-04-26	1430	479	--	-	--	L.01	-	04	03	-
82-05-25	1300	479		L.004	-	L.01		L.04	L.02	L.001
82-06-21	1330	479	--	--	--	L.01	--	L.04	L.02	-
82-07-19	1330	479	--		-	L.01	--	L.04	L.02	--
82-08-09	1345	479		L.004	-	L.01	--	04	L.02	L.001
82-09-20	1415	479	-		--	L.01		L.04	L.02	--
82-10-19	1510	479	--	L.004	--	L.01	-	L.04	L.02	L.001
82-11-15	1315	479	-	--	--	L.01	-	L.04	L.02	--
82-12-13	1400	479	--		-	L.01 04I	-	L.04 04I	L.02 11W	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-25	1415	479	--	L.002	L.002	L.001	009	002	L.05	L.004
82-05-25	1300	479	--	L.002	019	001	015	L.001	L.05	L.004
82-08-09	1345	479	--	L.002	002	.002	005	L.001	08	L.004
82-10-19	1510	479	--	L.002	L.002	L.001	004	L.001	06	L.004

STATION - 00AL05BN0001 LAT. 50D 2M 47S LONG 111D 35M 26S
BOW RIVER NEAR MOUTH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-25	1415	479	L .001	--	--	L .001	.003	L .001	L .001	L .002
82-02-16	1420	479	L .001	--	--	--	--	--	--	--
82-03-22	1345	479	L .001	--	--	--	--	--	--	--
82-04-26	1430	479	L .001	--	--	--	--	--	--	--
82-05-25	1300	479	.001	--	--	L .001	.006	L .001	L .001	L .002
82-06-21	1330	479	.002	--	--	--	--	--	--	--
82-07-19	1330	479	.001	--	--	--	--	--	--	--
82-08-09	1345	479	L .001	--	--	L .001	.005	.001	L .001	L .002
82-09-20	1415	479	.003	--	--	--	--	--	--	--
82-10-19	1510	479	.001	--	--	L .001	.004	.001	L .001	L .002
82-11-15	1315	479	.002	--	--	--	--	--	--	--
82-12-13	1400	479	.001 35W	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-25	1415	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-25	1300	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-09	1345	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-19	1510	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-25	1415	479	L .002	L .0020	L .001	L .003	L .002	L .2	.050	L .009
82-05-25	1300	479	L .002	L .0020	L .001	L .003	L .002	L .2	.200	L .009
82-08-09	1345	479	L .002	L .0020	L .001	L .003	L .002	L .2	.100	L .009
82-10-19	1510	479	L .002	L .0020	L .001	L .003	L .002	L .2	.060	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-25	1415	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002
82-05-25	1300	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002
82-08-09	1345	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002
82-10-19	1510	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-25	1415	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05
82-05-25	1300	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05
82-08-09	1345	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05
82-10-19	1510	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05BN0001 LAT. 50D 2M 47S LONG. 111D 35M 26S
BOW RIVER NEAR MOUTH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-25	1415	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-05-25	1300	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-09	1345	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-19	1510	479	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 16M 0S LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-11	1040	479	.0	18.7	582.	567.	7.8	7.6	--	1.5
82-02-11	1115	479	1.0	21.2	483	509.	7.7	7.6	--	2.0
82-03-08	1015	479	1.0	14.4	477.	479.	7.7	7.5	--	1.6
82-04-05	1100	479	1.5	19.9	476.	438.	7.8	7.7	--	2.2
82-05-12	1130	479	12.0	20.5	385.	371.	8.5	8.5	5.0	4.0
82-06-07	1200	479	10.0	20.8	334.	325.	8.1	8.1	90.0	34.0
82-07-12	1000	479	19.0	23.8	301.	280.	7.9	8.0	36.0	18.0
82-08-03	1000	479	16.5	21.6	367.	345.	8.2	8.3	--	5.2
82-09-13	1015	479	10.0	21.6	340	352.	8.2	8.3	--	5.0
82-10-05	1030	479	6.0	17.5	423.	384.	8.3	8.3	--	5.2
82-11-01	1000	479	2.0	19.3	430.	403.	8.5	8.3	--	1.5
82-12-06	1010	479	.0	13.1	507	463	7.7	7.8	1.6	1.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012I COLIFORMS FECAL MF NO/DL	36103I FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-11	1040	479	10.	4	--	001	8.	8.	5	7.4
82-02-11	1115	479	10	2	--	L 001	31	23	11	8.6
82-03-08	1015	479	10	3	--	L 001	18	17	7	9.1
82-04-05	1100	479	40	1	--	001	98	6	63.	10.2
82-05-12	1130	479	20	3	--	006	158	45	2	10.7
82-06-07	1200	479	20	115	--	006	90	76	54	10.2
82-07-12	1000	479	60	38	--	003	--	89	127	7.0
82-08-03	1000	479	30	12	--	004	--	21.	70	8.2
82-09-13	1015	479	10	4	--	003	30	10	680.	9.8
82-10-05	1030	479	10	7	--	001	33	14	540	11.1
82-11-01	1000	479	10	11	--	002	15	12	140	13.0
82-12-06	1010	479	10	11	--	001	16	12.	530	11.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-11	1040	479	0	0	313.	257.0	80.30	24.8	302.6	7.8
82-02-11	1115	479	0	0	274	225.0	66.10	22.0	255.6	3.6
82-03-08	1015	479	0	0	262.	215.0	56.90	21.8	231.8	7.6
82-04-05	1100	479	0	0	256	210.0	61.20	20.7	238.0	12.0
82-05-12	1130	479	4	3.0	200	170.0	49.10	15.8	187.7	8.3
82-06-07	1200	479	0	0	171	140.0	44.50	13.5	166.7	6.2
82-07-12	1000	479	0	0	165	135.0	38.90	12.1	147.0	7.2
82-08-03	1000	479	0	0	201	165.0	49.10	14.7	183.1	7.2
82-09-13	1015	479	0	0	207	170.0	54.20	16.9	204.9	6.3
82-10-05	1030	479	0	0	232	190.0	55.30	17.5	210.1	8.6
82-11-01	1000	479	0	0	240	197.0	53.30	17.0	203.1	8.7
82-12-06	1010	479	0	0	280	230.0	59.20	21.4	235.9	10.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-11	1040	479	1.1	1.6	15	52.	7.8	330	--	--
82-02-11	1115	479	7	6	14	54	4.8	287.	--	--
82-03-08	1015	479	1.0	1.1	14	50.	7.0	274.	--	--
82-04-05	1100	479	5.6	4.5	12	48.	7.8	286	--	--
82-05-12	1130	479	2.3	1.9	09	30.	3.2	213	--	--
82-06-07	1200	479	1.2	1.2	13	30.	4.8	185.	--	--
82-07-12	1000	479	2.2	1.4	11	16	8.8	168	--	--
82-08-03	1000	479	1.2	1.2	16	24	6.1	203.	--	--
82-09-13	1015	479	1.2	1.1	15	32.	4.9	219	--	--
82-10-05	1030	479	1.4	1.7	14	30.	5.5	234.	--	--
82-11-01	1000	479	1.3	3.0	16	39.	4.5	245.	--	--
82-12-06	1010	479	1.3	1.8	16	41.	6.9	280.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 16M 0S LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-11	1040	479	.006	L .003	L .006	.16	.30	.30	L .01	.30
82-02-11	1115	479	.070	.007	.063	.21	.28	.25	L .01	.25
82-03-08	1015	479	.015	.006	.009	.20	.26	.24	.02	.26
82-04-05	1100	479	.071	.060	.011	.48	.80	.79	.07	.86
82-05-12	1130	479	.021	.012	.009	.01	.20	.20	.05	.25
82-06-07	1200	479	.110	.007	.100	.07	.21	.22	.20	.42
82-07-12	1000	479	.091	.044	.047	.05	.51	.47	.16	.63
82-08-03	1000	479	.023	.009	.014	.03	.25	.23	.05	.28
82-09-13	1015	479	.014	L .003	.012	.03	.13	.13	L .01	.13
82-10-05	1030	479	.014	.005	.009	.01	.14	.13	.04	.17
82-11-01	1000	479	.052	.006	.046	L .01	.13	.12	L .01	.12
82-12-06	1010	479	.018	.008	.010	.13	.21	.21	L .01	.21

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-11	1040	479	L .1	--	3.2	.15	3.4	.06 050	L .0005	.0005
82-02-11	1115	479	L .1	--	2.1	1.01	02.1	.05 050	.0005	L .0005
82-03-08	1015	479	L .1	-	2.1	.20	2.3	.07 050	L .0005	L .0005
82-04-05	1100	479	.2	--	7.2	.29	7.5	.14 050	.0005	.0006
82-05-12	1130	479	L .1	--	5.4	.33	5.7	.05 050	L .0005	L .0005
82-06-07	1200	479	L .1	--	4.7	3.10	7.8	.05 050	L .0005	L .0005
82-07-12	1000	479	L .1	-	16.0	1.80	17.8	.12 050	.0008	L .0005
82-08-03	1000	479	L .1	--	5.7	.56	6.3	.07 050	.0005	L .0005
82-09-13	1015	479	L .1	--	3.4	.49	3.9	.05 050	L .0005	L .0005
82-10-05	1030	479	L .1		4.1	.39	4.5	.06 050	L .0005	L .0005
82-11-01	1000	479	L .1	--	3.6	.12	3.7	.05 050	L .0005	L .0005
82-12-06	1010	479	L .1		2.4	.17	2.6	.05 050	L .0005	L .0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-11	1040	479		L .004	-	.01	-	L .04	L .02	L .001
82-02-11	1115	479	-	-		.04		L .04	L .02	--
82-03-08	1015	479		--		.02	-	L .04	L .02	-
82-04-05	1100	479	-		--	L .01	--	L .04	L .02	--
82-05-12	1130	479		L .004		L .01		.09	L .02	L .001
82-06-07	1200	479	-		--	.01		.04	L .02	--
82-07-12	1000	479	-		-	L .01	--	.15	L .02	-
82-08-03	1000	479	-	L .004		L .01	-	.07	L .02	L .001
82-09-13	1015	479	-		-	L .01		L .04	L .02	--
82-10-05	1030	479	-	L .004	--	L .01	-	L .04	L .02	L .001
82-11-01	1000	479	-		--	L .01	-	.05	L .02	--
82-12-06	1010	479	-			L .01	-	L .04	L .02	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-11	1040	479	--	L .002	.002	.010	L .001	L .001	.15	L .004
82-05-12	1130	479	--	L .002	.003	L .001	.001	L .001	.14	L .004
82-08-03	1000	479	--	L .002	--	L .001	.008	L .001	.13	L .004
82-10-05	1030	479	--	L .002	--	--	-	L .001	.11	.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 16M 05 LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-11	1040	479	001	--	--	L 001	L 001	L 001	L 001	L 002
82-02-11	1115	479	L 001	--	--	--	--	--	--	--
82-03-08	1015	479	L 001	--	--	--	--	--	--	--
82-04-05	1100	479	002	--	--	--	--	--	--	--
82-05-12	1130	479	L 001	--	--	L 001	002	L 001	L 001	L 002
82-06-07	1200	479	002	--	--	--	--	--	--	--
82-07-12	1000	479	002	--	--	--	--	--	--	--
82-08-03	1000	479	L 001	--	--	L 001	004	L 001	L 001	L 002
82-09-13	1015	479	001	--	--	--	--	--	--	--
82-10-05	1030	479	L 001	--	--	L 001	002	L 001	L 001	L 002
82-11-01	1000	479	L 001	--	--	--	--	--	--	--
82-12-06	1010	479	005	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-11	1040	479	L 001	L 001	L 004	L 01	L 0020	L 001	L 003	L 001
82-05-12	1130	479	L 001	L 001	L 004	L 01	L 0020	L 001	L 003	L 001
82-08-03	1000	479	L 001	L 001	L 004	L 01	L 0020	L 001	L 003	L 001
82-10-05	1030	479	L 001	L 001	L 004	L 01	L 0020	L 001	L 003	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-11	1040	479	L 002	L 0020	L 001	L 003	L 002	L 2	L 004	L 009
82-05-12	1130	479	L 002	L 0020	L 001	L 003	L 002	L 2	L 004	L 009
82-08-03	1000	479	L 002	L 0020	L 001	L 003	L 002	L 2	L 004	L 009
82-10-05	1030	479	L 002	L 0020	L 001	L 003	L 002	L 2	L 004	L 009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-11	1040	479	L 004	L 002	L 004		L 002	L 002	L 005	L 002
82-05-12	1130	479	L 004	L 002	L 004		L 002	L 002	L 005	L 002
82-08-03	1000	479	L 004	L 002	L 004		L 002	L 002	L 005	L 002
82-10-05	1030	479	L 004	L 002	L 004		L 002	L 002	L 005	L 002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P BISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-11	1040	479	L 5	L 20	L 20	L 02	L 20	L 02	L 02	L 05
82-05-12	1130	479	L 5	L 20	L 20	L 02	L 20	L 02	L 02	L 05
82-08-03	1000	479	L 5	L 20	L 20	L 02	L 20	L 02	L 02	L 05
82-10-05	1030	479	L 5	L 20	L 20	L 02	L 20	L 02	L 02	L 05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CC0004 LAT. 52D 16M 05 LONG. 113D 51M 47S
RED DEER RIVER AT HWY 2 ABOVE RED DEER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-11	1040	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-05-12	1130	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-08-03	1000	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-10-05	1030	479	L .02	L .02	L .02	L .02	L .02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CE0001
RED DEER RIVER AT DRUMHELLER, ALBERTA

LAT. 51D 28M 8S LONG 112D 42M 29S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-18	1035	479	.0	19.7	743	709	7.5	7.4	-	1.0
82-02-08	1110	479	.0	20.5	-	567	7.6	7.3	--	1.0
82-03-15	1045	479	.0	21.2	539	520	7.5	7.5	--	44.0
82-04-19	1130	479	1.5	22.5	325	319	8.4	7.7	--	130.0
82-05-10	0955	479	8.0	22.2	399	374	8.5	8.4	12.0	14.0
82-06-14	0930	479	19.5	18.8	367	339	8.4	8.3	34.0	24.0
82-07-12	0830	479	19.5	20.4	308	292	8.0	8.1	72.0	47.0
82-08-23	0945	479	17.5	19.1	373	321	8.4	8.4	19.0	20.0
82-09-20	0945	479	11.0	14.4	373	293	8.4	8.7	2.0	1.6
82-10-18	0950	479	3.5	15.8	426	391	8.6	8.4	3.5	3.6
82-11-08	0945	479	.0	20.0	400	461	8.6	8.3	1.0	2.9
82-12-13	1030	479	0	8.3	590	535	7.7	7.6	8	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-18	1035	479	20	1 01R	--	.001 171	--	10 120	L1 031	4
82-02-08	1110	479	10	L1	-	L.001	16	14	2	5
82-03-15	1045	479	10	77	--	.010	30	25	1300	5.8
82-04-19	1130	479	100	560	-	.040	1100	660	500C	11.5
82-05-10	0955	479	40	14	-	.010	50	10	L2	10.7
82-06-14	0930	479	20	61	--	.010	400	70	22	8.0
82-07-12	0830	479	80	116	-	.010	300	52	54	7.0
82-08-23	0945	479	20	42	-	.008	50	42	34	8.3
82-09-20	0945	479	10	3		.001		8	100	9.8
82-10-18	0950	479	20	8	-	.002	80	76	370	11.1
82-11-08	0945	479	20	6	--	.001	10	2	22	12.9
82-12-13	1030	479	10	2		.001	20	12	18	7.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-18	1035	479	0	.0	421	345.0	93.50	30.2	357.8	24.0
82-02-08	1110	479	0	.0	323	265.0	78.50	24.8	298.1	14.0
82-03-15	1045	479	0	.0	268	220.0	80.70	21.8	241.3	19.0
82-04-19	1130	479	0	.0	146	120.0	30.60	9.8	116.8	17.0
82-05-10	0955	479	--		-	165.0	42.10	14.1	163.2	19.0
82-06-14	0930	479	0	.0	189	155.0	45.70	13.2	168.5	9.2
82-07-12	0830	479	0	.0	165	135.0	36.80	11.7	140.1	11.0
82-08-23	0945	479	2	2.0	184	155.0	39.50	17.4	170.3	12.0
82-09-20	0945	479	14	12.0	160	155.0	43.10	17.5	179.7	11.0
82-10-18	0950	479	4	3.0	224	190.0	51.30	18.3	203.4	14.0
82-11-08	0945	479	0	.0	268	220.0	54.40	18.8	213.2	18.0
82-12-13	1030	479	0.	.0	317	260.0	64.80	23.6	259.0	16.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-18	1035	479	2.9	6.5	.27	85.	11.0	440.	--	-
82-02-08	1110	479	1.8	4.0	.18	60.	8.8	351.	--	--
82-03-15	1045	479	2.2	5.1	.19	56.	6.8	304.	--	--
82-04-19	1130	479	9.8	6.8	.10	30.	4.4	180.	--	--
82-05-10	0955	479	5.0	3.9	.10	34.	5.0	222.	--	-
82-06-14	0930	479	1.9	1.8	.13	32.	5.0	202.	-	-
82-07-12	0930	479	3.0	1.9	.13	18.	9.2	173.	-	--
82-08-23	0945	479	1.8	1.9	.15	33.	1.4	200.	-	--
82-09-20	0945	479	1.4	1.9	.15	33.	.7	202.	--	--
82-10-18	0950	479	1.9	2.7	.16	34.	.4	237.	--	
82-11-08	0945	479	1.9	3.7	.15	43.	2.0	274.	--	--
82-12-13	1030	479	2.0	3.6	.14	49.	6.7	322.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CE0001
RED DEER RIVER AT DRUMHELLER, ALBERTA

LAT. 51D 28M 8S LONG. 112D 42M 29S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-18	1035	479	.270 06R	.240 03V	.030 01R	L.01 10V	1.60 51V	1.40 51R	.07 02R	--
82-02-08	1110	479	.170	.160	.010	L.01	.82	.82	.05	.87
82-03-15	1045	479	.150	.099	.051	.36	.86	.84	.20	1.00
82-04-19	1130	479	1.200	.290	.910	1.40	2.40	2.60	1.30	3.90
82-05-10	0955	479	.088	.033	.055	.07	.53	.52	.21	.73
82-06-14	0930	479	.100	.017	.083	.01	.24	.26	.28	.54
82-07-12	0930	479	.200	.047	.150	.09	.58	.62	.31	.93
82-08-23	0945	479	.031	.004	.027	.01	.22	.22	.18	.40
82-09-20	0945	479	.004	L.003	L.006	L.01	.17	.17	.06	.23
82-10-18	0950	479	--	.005	-	L.01	.25	.25	L.01	.25
82-11-08	0945	479	.013	.005	.008	L.01	.20	.20	L.01	.20
82-12-13	1030	479	.031	.027	L.006	.40	.60	.59	L.01	.59

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104I CARBON DISSOLVED ORGANIC C MG/L	06902I CARBON ORGANIC PARTICUL. C MG/L	06002I CARBON TOTAL ORGANIC (CALCD.) MG/L	05105I BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-18	1035	479	L.1 06W	--	5.0 04R	.31 02R	5.3	.08 05V	.0008 04V	L.0005 02V
82-02-08	1110	479	L.1	-	3.6	.29	3.9	.06 05D	.0008	L.0005
82-03-15	1045	479	.8	--	3.7	1.20	4.9	.08 05D	.0005	L.0005
82-04-19	1130	479	.7	-	14.0	13.60	27.6	.27 05D	.0014	L.0005
82-05-10	0955	479	L.1	--	8.5	1.30	9.8	.08 05D	.0008	L.0005
82-06-14	0930	479	L.1	--	7.4	2.30	9.7	.08 05D	L.0005	L.0005
82-07-12	0930	479	L.1	--	15.0	3.00	18.0	.16 05D	.0009	L.0005
82-08-23	0945	479	L.1	--	5.1	.89	6.0	.04 05D	L.0005	L.0005
82-09-20	0945	479	L.1	--	3.7	.43	4.1	.03 05D	L.0005	L.0005
82-10-18	0950	479	L.1	--	5.7	.44	6.1	.04 05D	L.0005	L.0005
82-11-08	0945	479	L.1	--	4.8	.33	5.1	.06 05D	L.0005	L.0005
82-12-13	1030	479	.1	--	3.4	.08	3.5	.11 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-18	1035	479		L.004	-	.46 04T		L.04 04T	L.02 11W	L.001 20W
82-02-08	1110	479		-		.15	--	.05	L.02	-
82-03-15	1045	479		--	-	.02		L.04	L.02	
82-04-19	1130	479		--	-	.03	-	.32	.05	-
82-05-10	0955	479		L.004	-	L.01	-	.09	L.02	.001
82-06-14	0930	479	-	-	-	L.01	-	L.04	L.02	-
82-07-12	0930	479		-	--	L.01	-	.17	L.02	--
82-08-23	0945	479	-	L.004	--	L.01	--	L.04	L.02	.002
82-09-20	0945	479		-	--	L.01	--	L.04	L.02	
82-10-18	0950	479	--	L.004	-	L.01	--	.04	L.02	L.001
82-11-08	0945	479	-	--	-	L.01	--	L.04	L.02	--
82-12-13	1030	479	--	-	--	L.01	--	L.04	L.02	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-18	1035	479	--	L.002 20W	.002 20W	L.001 20W	.009 20W	L.001 20W	.21 20W	L.004 20W
82-05-10	0955	479	--	L.002	L.002	.001	.004	L.001	.12	L.004
82-08-23	0945	479	-	L.002	--	--	--	L.001	.14	L.004
82-10-18	0950	479	--	L.002	L.002	.001	.002	L.001	.11	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CE0001
RED DEER RIVER AT DRUMHELLER, ALBERTA

LAT. 51D 28M 8S LONG. 112D 42M 29S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-18	1035	479	L.001 35W	--	--	L.001 11R	.002 75R	.002 70R	L.001 30R	L.002 10R
82-02-08	1110	479	L.001	--	--	--	--	--	--	--
82-03-15	1045	479	.001	--	--	--	--	--	--	--
82-04-19	1130	479	.004	--	--	--	--	--	--	--
82-05-10	0955	479	L.001	--	--	--	--	--	--	--
82-06-14	0930	479	.001	--	--	L.001	L.001	L.001	L.001	L.002
82-07-12	0930	479	.002	--	--	--	--	--	--	--
82-08-23	0945	479	.003	--	--	--	--	--	--	--
82-09-20	0945	479	.002	--	--	L.001	.003	L.001	L.001	L.002
82-10-18	0950	479	.002	--	--	--	--	--	--	--
82-11-08	0945	479	.002	--	--	L.001	.002	L.001	L.001	L.002
82-12-13	1030	479	L.001	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-18	1035	479	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-05-10	0955	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-23	0945	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-18	0950	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-18	1035	479	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-05-10	0955	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-23	0945	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-18	0950	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-18	1035	479	L.004 55W	L.002 10W	L.004 40W		L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-05-10	0955	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-08-23	0945	479	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-10-18	0950	479	L.004	L.002	L.004		L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-05-10	0955	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-23	0945	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-18	0950	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CE0001 LAT. 51D 28M 8S LONG. 112D 42M 29S
RED DEER RIVER AT DRUMHELLER, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-05-10	0955	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-23	0945	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-18	0950	479	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CK0001 RED DEER RIVER AT BINDLOSS, ALBERTA

LAT. 50D 54M 10S LONG. 110D 17M 48S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-19	1205	462	.0	20.5	959.	916.	7.9	7.8	--	1.0
82-02-09	1150	462	.0	18.6	837.	778.	7.7	7.5	--	2.0
82-03-16	1345	462	1.0	19.4	499.	502.	8.0	8.0	--	4.5
82-04-20	1030	462	3.0	23.0 61R	390.	380. 41R	8.2	7.7 01R	G1000.0	300.0 73R
82-05-11	1050	462	9.0	21.0	396.	378.	8.5	8.2	44.0	35.0
82-06-15	0930	462	20.0	22.6	422.	386.	8.3	8.2	900.0	--
82-07-13	0930	462	20.5	27.6	335.	323.	7.9	8.0	400.0	160.0
82-08-24	1130	462	17.0	23.8	413.	360.	8.3	8.3	33.0	18.0
82-09-21	0940	462	12.0	21.2 61R	429.	388 41R	8.2	8.3 01R	34.0	29.0 73R
82-10-19	1100	462	3.0	12.5	472.	433	8.4	8.3	19.0	18.0
82-11-09	1115	462	.0	14.6	565.	522.	8.4	8.2	7.0	7.0
82-12-14	1110	462	.0	6.9	812.	749.	8.0	7.8	1.2	3.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-19	1205	462	10	2.	L1	.002	2	2.	--	1.5
82-02-09	1150	462	10	3.	1.	L.001	60	6.	-	1.2
82-03-16	1345	462	20.	7.	5.	.020	6	2.	-	14.2
82-04-20	1030	462	50 21P	1180. 01R	1100. 01R	.050 171	350 02U	100 12U	--	11.6
82-05-11	1050	462	40	77.	65.	.020	25.	L5.	--	10.7
82-06-15	0930	462	30	494.	442	.030	200.	150.	-	7.8
82-07-13	0930	462	60.	446.	420	.020	100	80	--	6.8
82-08-24	1130	462	20	64.	57	.008	30.	18.	--	8.8
82-09-21	0940	462	10. 21R	55. 01R	50. 01R	.010 171	100. 02U	42. 12U	--	9.6
82-10-19	1100	462	5	37.	33	.010	20	14	--	12.1
82-11-09	1115	462	10	18.	16	.006	10.	2.	--	13.7
82-12-14	1110	462	10	11.	11	.001	2	L2	--	6.8

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-19	1205	462	0	0	508	417.0	103.00	40.8	425.2	52.0
82-02-09	1150	462	0	0	463	380.0	82.00	35.9	352.6	27.0
82-03-16	1345	462	0	.0	236	195.0	54.50	20.5	220.5	27.0
82-04-20	1030	462	0.	0 51R	165.	135.0 01R	L33.50 03R	L12.0 02R	0133.1	33.0 03R
82-05-11	1050	462	0	.0	183.	150.0	38.10	13.3	149.9	25.0
82-06-15	0930	462	0.	0	189	155.0	42.50	13.9	163.4	23.0
82-07-13	0930	462	0	0	165	135.0	35.70	12.2	139.4	15.0
82-08-24	1130	462	0	0	189	155.0	45.00	16.1	178.7	16.0
82-09-21	0940	462	0.	.0 51R	201	165.0 01R	47.10 03R	17.5 02R	189.7	21.0 03R
82-10-19	1100	462	0.	0	226	185.0	50.90	19.1	205.7	22.0
82-11-09	1115	462	0	0	268	220.0	53.20	20.7	218.1	30.0
82-12-14	1110	462	0	.0	433	355.0	74.80	34.9	330.5	38.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-19	1205	462	3.7	15.0	.26	117	7.4	589.	L1.000	.004
82-02-09	1150	462	3.0	9.4	.18	86.	9.5	481.	4.000	.001
82-03-16	1345	462	2.6	7.6	.14	66.	3.0	298.	L1.000	.004
82-04-20	1030	462	4.3 03R	5.3 06R	.19 05R	52. 06R	5.7 05R	227.	L1.000	.013 04W
82-05-11	1050	462	6.3	6.1	.09	44.	4.0	227.	--	.001
82-06-15	0930	462	3.4	3.2	.13	48.	5.6	233.	--	.004
82-07-13	0930	462	3.5	2.1	.12	24.	8.3	182.	--	.006
82-08-24	1130	462	2.1	3.1	.17	47.	4.0	226.	--	.001
82-09-21	0940	462	2.1 03R	3.4 06R	.15 05R	46. 06R	1.9 05R	238.	--	.003 04W
82-10-19	1100	462	2.2	4.3	.14	57.	2.2	269.	--	.001
82-11-09	1115	462	2.2	6.3	.20	75.	1.8	321.	--	.001
82-12-14	1110	462	3.2	9.4	.17	87.	4.3	465.	L1.000	.002

STATION - **00AL05CK0001** LAT. **50D 54M 10S** LONG. **110D 17M 48S**
RED DEER RIVER AT BINDLOSS, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-19	1205	462	.011	008	L.006	.36	.77	.76	.05	.81
82-02-09	1150	462	.058	.046	.012	.01	.68	.68	.06	.74
82-03-16	1345	462	.055	010	.045	.19	.36	.35	.20	.55
82-04-20	1030	462	.800 06R	037 03V	.760 01R	.62 10V	1.10 51V	1.10 51R	2.10 02R	--
82-05-11	1050	462	.130	015	.120	L.01	.42	.39	57	.96
82-06-15	0930	462	.310	.012	.300	.08	.28	.31	.81	1.10
82-07-13	0930	462	.390	018	.370	.15	.60	.58	.73	1.30
82-08-24	1130	462	.078	005	.073	L.01	.17	.19	.28	.47
82-09-21	0940	462	.058 06R	L.003 03V	.056 01R	L.01 10V	.18 51V	.18 51R	.23 02R	--
82-10-19	1100	462	.072	005	.067	L.01	.25	.25	.16	.41
82-11-09	1115	462	.025	007	018	.03	.22	.25	.07	.32
82-12-14	1110	462	.011	005	.006	.02	.26	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-19	1205	462	L 1	L 003	5.6	24	5.8	.12 05D	L.0005	L.0005
82-02-09	1150	462	L 1	040	5 1	35	5.5	.09 05D	.0010	L.0005
82-03-16	1345	462	L.1	010	4.6	1.20	5.8	.07 05D	L.0005	L.0005
82-04-20	1030	462	.2 06W	L.003 56V	7.7 04R	18.90 02R	26.6	.17 05V	L.0005 04V	L.0005 02V
82-05-11	1050	462	L 1	.003	3.0	3.90	6.9	.04 05D	L 0005	L.0005
82-06-15	0930	462	L 1	L 003	4.4	6.70	11 1	.08 05D	L.0005	L.0005
82-07-13	0930	462	L 1	008	12.0	7.50	19.5	.12 05D	.0005	L.0005
82-08-24	1130	462	L 1	L 003	4.2	1.70	5.9	.05 05D	.0005	L.0005
82-09-21	0940	462	L 1 06W	L 003 56V	4 4 04R	1.50 02R	5.9	.03 05V	L.0005 04V	L.0005 02V
82-10-19	1100	462	L 1	L 003	5 7	1.40	7.1	.05 05D	L 0005	L.0005
82-11-09	1115	462	L.1	006	4.8	.59	5.4	04 05D	L 0005	L.0005
82-12-14	1110	462	L 1	003	6.2	-		.12 05D	L 0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-19	1205	462	L 06	--	--	03	-	L.04	L 02	L 001
82-02-09	1150	462	L 06	-	--	09	--	L.04	L 02	L.001
82-03-16	1345	462	.08			L.01	-	L 04	L 02	L 001
82-04-20	1030	462	1 50 02W	--	--	L 01 04T	--	10 04T	10 11W	.056 20W
82-05-11	1050	462	30	-	--	L.01	--	.08	L.02	003
82-06-15	0930	462	1 10	-	-	L.01	--	L 04	.04	.030
82-07-13	0930	462	1 30	--	--	L.01	--	.09	.03	026
82-08-24	1130	462	12	--	--	L.01	--	L.04	L 02	.005
82-09-21	0940	462	32 02W	--		L 01 04T	--	L 04 04T	L.02 11W	003 20W
82-10-19	1100	462	1.00	-	--	L.01	--	L 04	L.02	.003
82-11-09	1115	462	06	-	--	L.01	--	L 04	L.02	L.001
82-12-14	1110	462	06	-	--	.02	--	L.04	L.02	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-19	1205	462	L.015	003	.002	L.001	.018	L.001	.22	L.004
82-02-09	1150	462	L.015	--	.004	--	--	L.001	.17	L.004
82-03-16	1345	462	L.015	L.002	L.002	.002	.007	L.001	.11	L.004
82-04-20	1030	462	L.015 02W	.011 20W	.049 20W	.040 20W	.070 20W	002 20W	.52 20W	.019 20W
82-05-11	1050	462	L.015	L 002	.005	.003	006	001	.12	L.004
82-06-15	0930	462	L 015	L.002	.016	.024	.064	L.001	.22	.023
82-07-13	0930	462	L.015	.007	.022	.021	.052	L.001	.30	.008
82-08-24	1130	462	L.015	L.002	.002	.004	.014	L.001	.14	L.004
82-09-21	0940	462	L.015 02W	L.002 20W	L.002 20W	.004 20W	.010 20W	L.001 20W	.10 20W	L.004 20W
82-10-19	1100	462	L.015	i.002	.002	.003	.009	L.001	10	L.004
82-11-09	1115	462	L.015	L 002	L.002	.001	.003	L.001	.09	L.004
82-12-14	1110	462	L.015	L.002	.002	.001	.004	L.001	.16	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05CK0001
RED DEER RIVER AT BINDLOSS, ALBERTA

LAT. 50D 54M 10S LONG. 110D 17M 48S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-19	1205	462	L.001	L1.0	L1.0	L.001	L.001	L.001	L.001	L.002
82-02-09	1150	462	.001	L1.0	L1.0	L.001	L.001	L.001	L.001	L.002
82-03-16	1345	462	.002	L1.0	L1.0	L.001	L.001	L.001	L.001	L.002
82-04-20	1030	462	.002 35W	L1.0 00W	L1.0 10W	L.001 11R	L.001 75R	L.001 70R	L.001 30R	L.002 10R
82-05-11	1050	462	L.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-06-15	0930	462	.001	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-07-13	0930	462	.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-08-24	1130	462	.001	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-09-21	0940	462	.004 35W	L1.0 00W	L1.0 10W	L.001 11R	.003 75R	L.001 70R	L.001 30R	L.002 10R
82-10-19	1100	462	.002	--	--	L.001	.003	L.001	L.001	L.002
82-11-09	1115	462	.001	--	--	L.001	.002	L.001	L.001	L.002
82-12-14	1110	462	L.001	--	--	L.001	.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-19	1205	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-09	1150	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-16	1345	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-20	1030	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-05-11	1050	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-15	0930	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-13	0930	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-24	1130	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-21	0940	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-10-19	1100	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-09	1115	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-14	1110	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-19	1205	462	L.002	L.0020	L.001	L.003	L.002	L.2	.008	L.009
82-02-09	1150	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-16	1345	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-20	1030	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-05-11	1050	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-15	0930	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-13	0930	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-24	1130	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-21	0940	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-10-19	1100	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-09	1115	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-14	1110	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-19	1205	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-09	1150	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-16	1345	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-20	1030	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-05-11	1050	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-15	0930	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-13	0930	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-24	1130	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-21	0940	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-10-19	1100	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-11-09	1115	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-12-14	1110	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT | G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION | G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05DA0001 NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA — LAT. 52D 0M 10S LONG. 116D 28M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	1215	417	0	16.8	292.	299	8.0	8.1	.2	1.1
82-02-02	1040	417	0	21.0	291.	289	8.1	8.0	4	.6
82-03-23	1100	417	.5	20.5	299.	293.	8.2	8.1	--	.6
82-04-06	1015	417	.0	20.8	294.	291	8.2	8.1	--	1.0
82-05-04	1020	417	.0	20.6	270.	268.	8.2	8.1	6.0	4.4
82-06-08	0845	417	6.0	22.7	228.	214.	8.3	8.2	8.2	6.5
82-07-06	0915	417	7.0	20.7	170.	153.	8.2	8.1	60.0	44.0
82-08-18	0845	417	6.5	17.9	163.	154.	8.3	8.2	--	38.0
82-09-14	0915	417	3.0	22.0	182.	170.	7.7	8.1	19.0	20.0
82-10-05	0920	417	1.5	17.1	219.	212.	7.9	8.1	4.0	5.0
82-11-03	1015	417	.0	18.0	264.	242.	8.1	8.0	1.8	1.8
82-12-07	1045	417	.0	18.3	282.	263.	8.0	8.0	1.6	2.8

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-12	1215	417	5	L1.	--	L.001	1.	L1.	L1	11.6
82-02-02	1040	417	5	L1.	--	L.001	L1	L1.	L1.	--
82-03-23	1100	417	5.	2	--	L.001	L1.	L1.	L1.	12.2
82-04-06	1015	417	5.	L1	--	.001	L1.	L1.	L1.	11.8
82-05-04	1020	417	5.	6.	--	L.001	L1	L1	L1.	11.9
82-06-08	0845	417	5.	9.	--	L.001	2.	L1.	1	10.3
82-07-06	0915	417	L5	61.	--	L.001	10	2.	2	10.4
82-08-18	0845	417	30	74.	--	.001	L2	L2	10.	10.4
82-09-14	0915	417	5	20.	--	.001	L1	L1.	9	11.0
82-10-05	0920	417	5.	5.	-	L.001	1	1	1.	11.8
82-11-03	1015	417	5	1.	--	.001	L1.	L1	11	13.2
82-12-07	1045	417	5	L1.	--	.001	2	L1	9	10.5

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-12	1215	417	0	0	135.	111.0	37.80	15.2	157.0	1.0
82-02-02	1040	417	0.	0	134	110.0	37.10	15.7	157.3	1.0
82-03-23	1100	417	0	0	134	110.0	36.10	15.1	152.3	1.0
82-04-06	1015	417	0	0	134	110.0	37.20	15.1	155.1	1.0
82-05-04	1020	417	0.	.0	118	97.0	34.00	13.7	141.3	.9
82-06-08	0845	417	0.	.0	115	94.0	30.40	10.1	117.5	9
82-07-06	0915	417	0.	.0	90	74.0	23.60	7.1	88.2	6
82-08-18	0845	417	0.	0	83	68.0	23.20	6.9	86.3	6
82-09-14	0915	417	0.	.0	94	77.0	25.80	7.9	96.9	5
82-10-05	0920	417	0.	0	101.	83.0	30.00	9.6	114.4	6
82-11-03	1015	417	0.	0	122	100.0	31.10	11.6	125.4	1.0
82-12-07	1045	417	0.	.0	126.	103.0	35.50	14.3	147.5	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	1215	417	.4	.5	.09	40	3.9	165.	--	--
82-02-02	1040	417	.4	.5	.05	40.	3.8	165	--	-
82-03-23	1100	417	.4	.5	.06	40	3.8	163.	--	--
82-04-06	1015	417	.3	.5	L.05	40.	3.6	164	--	--
82-05-04	1020	417	.3	.5	L.05	40	2.3	150.	--	--
82-06-08	0845	417	.3	.3	L.05	22.	3.1	124	--	--
82-07-06	0915	417	.3	.2	.07	13.	2.2	91	--	--
82-08-18	0845	417	.2	.3	.05	13.	1.8	87	--	--
82-09-14	0915	417	.2	.3	L.05	17.	2.2	100.	--	--
82-10-05	0920	417	3	.3	L.05	22.	2.7	115.	--	-
82-11-03	1015	417	.3	.4	.10	33.	3.4	141.	--	--
82-12-07	1045	417	.3	.5	L.05	39.	3.8	156.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05DA0001
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA
LAT. 52D 0M 10S LONG. 116D 28M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-12	1215	417	L.003	L.003	L.006	.11	13	.11	L.01	13
82-02-02	1040	417	L.003	L.003	L.006	.11	.11	13	L.01	.11
82-03-23	1100	417	.005	L.003	L.006	11	.11	11	L.01	.11
82-04-06	1015	417	.003	L.003	L.006	11	.11	10	L.01	.11
82-05-04	1020	417	003	L.003	L.006	.09	09	.09	L.01	.09
82-06-08	0845	417	.008	L.003	L.006	10	11	11	L.01	11
82-07-06	0915	417	027	.003	024	.06	.07	08	L.01	08
82-08-18	0845	417	.030	L.003	.028	05	06	07	L.01	07
82-09-14	0915	417	016	L.003	014	07	06	--	L.01	Q 07
82-10-05	0920	417	.005	L.003	L.006	07	07	07	L.01	07
82-11-03	1015	417	L.003	L.003	L.006	09	09	09	L.01	09
82-12-07	1045	417	.003	L.003	L.006	10	11	.10	L.01	.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	1215	417	L.1	-	6	06	7	03 05D	L.0005	L.0005
82-02-02	1040	417	L.1	-	8	03	8	04 05D	L.0005	L.0005
82-03-23	1100	417	L.1	--	6	05	7	03 05D	L.0005	L.0005
82-04-06	1015	417	L.1	--	7	02	7	.03 05D	L.0005	L.0005
82-05-04	1020	417	L.1	-	7	.17	9	02 05D	L.0005	L.0005
82-06-08	0845	417	L.1	-	1.0	23	1.2	02 05D	L.0005	L.0005
82-07-06	0915	417	L.1	-	9	2.00	2.9	02 05D	L.0005	L.0005
82-08-18	0845	417	L.1	-	8	2.50	3.3	03 05D	L.0005	L.0005
82-09-14	0915	417	L.1	-	1.0	1.00	2.0	L 02 05D	L.0005	L.0005
82-10-05	0920	417	L.1	-	6	26	9	L 02 05D	L.0005	L.0005
82-11-03	1015	417	L.1	-	1.3	05	1.4	06 05D	L.0005	L.0005
82-12-07	1045	417	L.1		3	45	8	06 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	1215	417			-	L.01		L.04	.02	-
82-02-02	1040	417	--	-	-	L.01		L.04	.03	-
82-03-23	1100	417	-	--	-	L.01		L.04	L.02	-
82-04-06	1015	417	--	-	--	L.01	--	L.04	L.02	-
82-05-04	1020	417	--	-	-	L.01		L.04	L.02	--
82-06-08	0845	417	-	--	--	L.01	--	L.04	L.02	--
82-07-06	0915	417	--	-	--	L.01	--	L.04	L.02	--
82-08-18	0845	417	--	--	--	L.01	--	L.04	L.02	-
82-09-14	0915	417	--	-	--	L.01	--	L.04	L.02	-
82-10-05	0920	417	-	-	--	L.01	--	L.04	L.02	--
82-11-03	1015	417	--	--	--	L.01		L.04	L.02	--
82-12-07	1045	417	--	--	-	L.01	--	L.04	L.02	--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL05DF0008 LAT 53D 22M 8S LONG 113D 45M 5S
NORTH SASKATCHEWAN RIVER AT DEVON. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-11	1400	479	.0	19.2	349.	368.	8.3	8.0	--	2.8
82-02-11	1400	479	1.0	21.1	-	330.	8.1	7.9	--	1.3
82-03-08	1315	479	1.5	16.2	305.	300	8.0	7.8	--	2.4
82-04-05	1410	479	1.5	20.0	302	309	7.9	7.9	--	1.4
82-05-12	0815	479	10.0	18.8	319	305.	8.2	8.2	38.0	24.0
82-06-07	1430	479	13.0	20.2	319	302.	8.2	8.1	58.0	35.0
82-07-12	1230	479	19.5	23.7	264	254.	8.0	8.1	140.0	92.0
82-08-03	1300	479	17.5	21.3	318.	300.	8.2	8.3	--	8.4
82-09-13	1600	479	12.5	22.5	321.	305.	8.3	8.3	--	10.0
82-10-05	1330	479	10.0	17.5	316.	291.	8.2	8.2	--	21.0
82-11-01	1300	479	--	19.2	311.	290.	8.3	8.1	-	2.7
82-12-06	1300	479	.0	13.2	322	295.	8.1	8.0	3.0	1.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-11	1400	479	10	4	-	L .001	23	16	6	12.6
82-02-11	1400	479	10	2	-	L .001	-	28	5	12.3
82-03-08	1315	479	-	11		L .001	20	13	2	12.2
82-04-05	1410	479	5	2	-	L .001	30	12	6	11.8
82-05-12	0815	479	10	50	--	.002	--	5	6	10.5
82-06-07	1430	479	10	61		L .001	40	10	11	9.9
82-07-12	1230	479	30	207		.004	300	20	200	8.2
82-08-03	1300	479	20	16		.003	110	4	14	8.5
82-09-13	1600	479	10	22	--	.001	20	20	-	9.5
82-10-05	1330	479	30	29		.004	80	70	400	11.0
82-11-01	1300	479	10	2	-	.002	5	12	25	12.9
82-12-06	1300	479	5	5		.001	4	2	270	12.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-11	1400	479	0	0	171	140.0	49.00	14.5	182.1	3.0
82-02-11	1400	479	0	0	165	135.0	47.50	14.2	177.1	3.6
82-03-08	1315	479	0	0	152	125.0	43.80	13.4	164.5	2.8
82-04-05	1410	479	0	0	146	120.0	43.00	13.0	160.9	3.0
82-05-12	0815	479	0	0	152	125.0	41.10	12.9	155.7	4.5
82-06-07	1430	479	0	0	152	125.0	43.30	12.7	160.4	4.0
82-07-12	1230	479	0	0	134	110.0	36.00	10.5	133.1	3.8
82-08-03	1300	479	0	0	159	130.0	43.60	11.9	157.9	4.4
82-09-13	1600	479	0	0	165	135.0	47.00	13.5	172.9	4.0
82-10-05	1330	479	0	0	165	135.0	43.20	12.0	157.3	5.7
82-11-01	1300	479	0	0	160	131.0	39.10	11.4	144.6	5.1
82-12-06	1300	479	0	0	159	130.0	44.50	13.4	166.3	4.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-11	1400	479	.6	8	14	40	4.8	197	-	-
82-02-11	1400	479	.7	6	12	40	5.0	193		--
82-03-08	1315	479	.6	6	11	42	4.2	182		-
82-04-05	1410	479	.5	.7	08	40	4.0	176	-	-
82-05-12	0815	479	1.2	8	08	38	4.4	178	--	-
82-06-07	1430	479	.8	.7	12	38	4.3	179		-
82-07-12	1230	479	.9	.7	10	24	6.0	148	-	--
82-08-03	1300	479	7	.6	17	28	5.3	173	--	-
82-09-13	1600	479	.8	6	12	33	4.5	184	-	--
82-10-05	1330	479	1.0	1.0	09	28	4.4	176	-	-
82-11-01	1300	479	.8	7	14	31	3.8	171	-	--
82-12-06	1300	479	.7	.8	.12	36	4.2	182	-	-

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05DF0008
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA LAT. 53D 22M 8S LONG. 113D 45M 5S

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-11	1400	479	.011	L .003	009	06	14	16	L 01	.16
82-02-11	1400	479	017	012	L 006	08	13	11	L 01	.11
82-03-08	1315	479	003	L 003	L 006	09	13	13	L 01	13
82-04-05	1410	479	003	003	L 006	10	13	13	L 01	13
82-05-12	0815	479	043	.007	036	07	18	15	10	25
82-06-07	1430	479	052	.003	049	03	11	.12	13	.25
82-07-12	1230	479	.240	.005	230	04	19	19	28	47
82-08-03	1300	479	.018	L 003	016	L 01	13	13	05	18
82-09-13	1600	479	025	L 003	.023	01	.08	08	L 01	08
82-10-05	1330	479	026	005	021	L 01	14	14	11	25
82-11-01	1300	479	012	004	008	L 01	08	08	L 01	08
82-12-06	1300	479	014	005	009	05	11	11	L 01	11

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	05902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-11	1400	479	L 1	--	2 1	15	2.3	05 05D	L .0005	L 0005
82-02-11	1400	479	L 1	-	2 0	08	2 1	05 05D	L 0005	L 0005
82-03-08	1315	479	L 1	.	1.6	13	1 7	04 05D	L 0005	L 0005
82-04-05	1410	479	L 1	--	1.7	08	1.8	04 05D	L 0005	L 0005
82-05-12	0815	479	L 1	--	3.9	97	4.9	05 05D	L .0005	L 0005
82-06-07	1430	479	L 1	-	3 3	1 70	5.0	.04 05D	L .0005	L .0005
82-07-12	1230	479	L 1	--	7 1	4 40	11 5	08 05D	L 0005	L .0005
82-08-03	1300	479	L 1	-	3 7	52	4.2	07 05D	L 0005	L 0005
82-09-13	1600	479	L 1		2 9	81	3.7	05 05D	L 0005	L .0005
82-10-05	1330	479	L 1	-	4.8	1 00	5.8	07 05D	L 0005	L 0005
82-11-01	1300	479	L 1	-	3 0	13	3 1	07 05D	L 0005	L 0005
82-12-06	1300	479	L 1		1 7	23	1 9	05 05D	L 0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-11	1400	479		L 004		L 01		L 04	L 02	L 001
82-02-11	1400	479		-	.	L 01	-	L 04	L 02	
82-03-08	1315	479		--		L 01		L 04	L 02	-
82-04-05	1410	479	-			01	--	09	L 02	--
82-05-12	0815	479	-	L 004		L 01	.	L 04	L 02	.002
82-06-07	1430	479	-	-	-	L 01	.	L 04	L 02	-
82-07-12	1230	479	-		--	01	..	04	02	
82-08-03	1300	479	--	L 004	--	L 01	.	L 04	L 02	001
82-09-13	1600	479	--	--	--	L 01	--	L 04	02	
82-10-05	1330	479	--	L 004	-	L 01	--	L 04	L 02	002
82-11-01	1300	479	--	--	--	L 01	--	L 04	L 02	--
82-12-06	1300	479	--	-	--	L 01	-	L 04	L 02	.

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-11	1400	479	--	-	L 002	..	..	L .001	05	L .004
82-05-12	0815	479	--	L 002	L 002	L 001	002	L .001	07	L 004
82-08-03	1300	479	-	L .002	009	006	--	L .001	09	L .004
82-10-05	1330	479	..	L .002	.	--	--	L .001	07	L .004

STATION - 00AL05DF0008 LAT. 53D 22M 8S LONG. 113D 45M 5S
NORTH SASKATCHEWAN RIVER AT DEVON. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-11	1400	479	.001	--	--	L.001	.003	L.001	L.001	L.002
82-02-11	1400	479	.001	--	--	--	--	--	--	--
82-03-08	1315	479	L.001	--	--	--	--	--	--	--
82-04-05	1410	479	L.001	--	--	--	--	--	--	--
82-05-12	0815	479	L.001	--	--	L.001	.003	L.001	L.001	L.002
82-06-07	1430	479	.001	--	--	--	--	--	--	--
82-07-12	1230	479	.005	--	--	--	--	--	--	--
82-08-03	1300	479	.002	--	--	L.001	.003	L.001	L.001	L.002
82-09-13	1600	479	.001	--	--	--	--	--	--	--
82-10-05	1330	479	.001	--	--	L.001	.005	L.001	L.001	L.002
82-11-01	1300	479	.001	--	--	--	--	--	--	--
82-12-06	1300	479	.002	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-11	1400	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-12	0815	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-03	1300	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-05	1330	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-11	1400	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-12	0815	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-03	1300	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-05	1330	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-11	1400	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-05-12	0815	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-08-03	1300	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-10-05	1330	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-11	1400	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-05-12	0815	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-03	1300	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-05	1330	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05DF0008
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA

LAT. 53D 22M 8S LONG. 113D 45M 5S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-11	1400	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-05-12	0815	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-08-03	1300	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-10-05	1330	479	L .02	L .02	L .02	L .02	L .02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05EC0005 NORTH SASKATCHEWAN RIVER AT PAKAN, ALBERTA LAT. 54D 0M 10S LONG 112D 23M 53S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	1345	479	.0	21.6	404.	408.	8.0	7.8	--	2.1
82-02-12	1400	479	2.0	20.8	335.	350.	8.0	7.8	--	1.5
82-03-09	1245	479	2.0	14.5	339.	--	7.8	7.6	--	9.2
82-04-06	1145	479	.0	20.9 61R	340.	345. 41R	7.8	7.7	--	3.3 73R
82-05-11	1300	479	10.0	20.0	346.	330.	8.1	8.0	64.0	46.0
82-06-08	1230	479	14.5	21.7	356.	342.	8.1	8.0	64.0	24.0
82-07-13	1200	479	19.5	27.8	277.	274.	8.0	8.0	164.0	130.0
82-08-04	1230	479	18.0	21.9	330.	315.	8.1	8.3	--	7.2
82-09-14	1200	479	11.0	21.6	345.	331.	8.1	8.2	-	4.5
82-10-06	1345	479	9.5	23.9	330.	311.	8.3	8.3	--	4.0
82-11-02	1230	479	3.0	19.6	332.	333.	8.3	8.3	--	7.5
82-12-07	1330	479	0	16.7	364.	332.	7.7	8.0	2.0	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-12	1345	479	10	11.	--	1.001	940.	325.	110	11.0
82-02-12	1400	479	10	3.	--	1.001	460	230.	30.	11.3
82-03-09	1245	479	15	12	--	.003	250.	11.	30.	10.9
82-04-06	1145	479	5 21R	6. 01R	--	.001 171	240 02U	--	40 03U	11.4
82-05-11	1300	479	40.	99.	--	.020	960	190.	55.	10.6
82-06-08	1230	479	20	50	--	.005	40	10.	70.	8.7
82-07-13	1200	479	30	258	--	.006	-	605.	700	7.9
82-08-04	1230	479	30	26	--	.009	-	95.	45.	8.5
82-09-14	1200	479	10	12	--	.010	3100	150	340	9.5
82-10-06	1345	479	10	16	-	.020	4700	125	155.	11.2
82-11-02	1230	479	20.	5	--	.007	170	110.	20.	13.6
82-12-07	1330	479	10.	3	--	.002	800	98	40	12.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102F MAGNESIUM DISSOLVED MG MG/L	10602F HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103F SODIUM DISSOLVED NA MG/L
82-01-12	1345	479	0	0	190.	156.0	53.50	16.4	201.1	6.0
82-02-12	1400	479	0	0	171	140.0	48.80	14.2	180.3	6.3
82-03-09	1245	479	0	0	159	130.0	47.00	14.5	177.1	6.8
82-04-06	1145	479	0	0 51R	152	125.0 01R	44.40 03R	13.3 02R	165.6	7.1 03R
82-05-11	1300	479	0	0	152	125.0	39.90	11.9	148.6	9.9
82-06-08	1230	479	0	0	159	130.0	46.20	13.4	170.5	7.0
82-07-13	1200	479	0.	0	140	115.0	37.40	10.5	136.6	4.9
82-08-04	1230	479	0	0	159	130.0	44.50	12.3	161.8	6.6
82-09-14	1200	479	0.	0	171	140.0	45.70	13.8	170.9	7.0
82-10-06	1345	479	0.	0	165	135.0	44.40	12.5	162.3	7.2
82-11-02	1230	479	0	0	165.	135.0	45.30	13.5	168.7	7.5
82-12-07	1330	479	0	0	168.	138.0	47.70	14.2	177.6	6.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206F CHLORIDE DISSOLVED CL MG/L	09105F FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105F SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	1345	479	1.0	3.4	.20	48.	5.3	227.	--	--
82-02-12	1400	479	1.0	3.2	.16	44.	5.0	207	-	--
82-03-09	1245	479	.9	4.1	.16	44.	4.6	200.	--	--
82-04-06	1145	479	.9 03R	4.4 06R	.44 05R	44. 06R	4.1 05R	193	--	--
82-05-11	1300	479	3.1	4.0	.11	44.	5.2	193	--	--
82-06-08	1230	479	1.5	2.8	.15	44.	3.8	197.	-	--
82-07-13	1200	479	1.1	1.2	.13	26	4.8	155.		-
82-08-04	1230	479	1.1	1.7	.15	34	5.1	183.	-	--
82-09-14	1200	479	1.2	2.2	.16	36	3.8	194.	--	--
82-10-06	1345	479	1.2	2.0	.14	34.	3.6	186.		--
82-11-02	1230	479	1.1	2.6	.18	39.	3.0	193	--	--
82-12-07	1330	479	1.1	2.7	.18	40	4.3	199.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05EC0005
NORTH SASKATCHEWAN RIVER AT PAKAN. ALBERTA   LAT. 54D 0M 10S LONG. 112D 23M 53S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-12	1345	479	130	120	.010	.19	.84	.84	L.01	.84
82-02-12	1400	479	120	110	.010	.22	.67	.60	L.01	.60
82-03-09	1245	479	.160	130	030	.32	.82	.78	.08	.86
82-04-06	1145	479	330 06R	300 03V	.030 01R	.23 10V	88 51V	.86 51R	.07 02R	--
82-05-11	1300	479	190	.079	110	.26	.78	78	.33	1.10
82-06-08	1230	479	120	.056	064	.27	44	.45	.02	.47
82-07-13	1200	479	310	025	290	.13	30	.31	.73	1.00
82-08-04	1230	479	089	046	043	.27	43	43	.10	.53
82-09-14	1200	479	100	068	030	23	48	47	33	.80
82-10-06	1345	479	120	080	040	16	.32	30	.11	41
82-11-02	1230	479	068	056	012	15	42	.38	L.01	.38
82-12-07	1330	479	086	082	L.006	21	54	45	L.01	.45

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	1345	479	L.1	--	2.3	09	2.4	07 05D	L.0005	L.0005
82-02-12	1400	479	L.1	--	2.3	09	2.4	04 05D	L.0005	L.0005
82-03-09	1245	479	7	--	2.0	89	2.9	15 05D	L.0005	L.0005
82-04-06	1145	479	5 06W	--	1.7 04R	48 02R	2.2	06 05V	L.0005 04V	L.0005 02V
82-05-11	1300	479	5	--	7.0	3.50	10.5	10 05D	L.0005	L.0005
82-06-08	1230	479	2	--	4.2	1.80	6.0	07 05D	L.0005	L.0005
82-07-13	1200	479	L.1	--	7.1	7.50	14.6	08 05D	.0005	L.0005
82-08-04	1230	479	L.1	--	4.7	88	5.6	08 05D	L.0005	L.0005
82-09-14	1200	479	3	--	4.6	2.30	6.9	07 05D	L.0005	L.0005
82-10-06	1345	479	3	--	3.5	92	4.4	06 05D	L.0005	L.0005
82-11-02	1230	479	4	--	3.1	38	3.5	06 05D	L.0005	L.0005
82-12-07	1330	479	4	--	2.3	17	2.5	13 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	1345	479		L.004		L.01		L.04	L.02	L.001
82-02-12	1400	479				L.01		L.04	L.02	-
82-03-09	1245	479				.01		L.04	L.02	--
82-04-06	1145	479				L.01 04I		L.04 04I	L.02 11W	-
82-05-11	1300	479		L.004		L.01		06	L.02	.001
82-06-08	1230	479				L.01		L.04	L.02	-
82-07-13	1200	479				L.01		05	L.02	-
82-08-04	1230	479		L.004		L.01		04	04	.001
82-09-14	1200	479				L.01		L.04	L.02	
82-10-06	1345	479		L.004		L.01		L.04	L.02	.001
82-11-02	1230	479		--		L.01		L.04	02	--
82-12-07	1330	479		--		L.01		L.04	L.02	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-12	1345	479	--	L.002	006	008	.004	L.001	.05	L.004
82-05-11	1300	479	--	L.002	002	003	007	L.001	09	L.004
82-08-04	1230	479	--	L.002	002	003		L.001	11	L.004
82-10-06	1345	479	--	L.002	004	.002	.015	L.001	08	L.004

STATION - 00AL05EC0005 LAT. 54D 0M 10S LONG. 112D 23M 53S
NORTH SASKATCHEWAN RIVER AT PAKAN. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-12	1345	479	L.001	--	--	L.001	.004	.001	L.001	L.002
82-02-12	1400	479	.001	--	--	--	--	--	--	--
82-03-09	1245	479	L.001	--	--	--	--	--	--	--
82-04-06	1145	479	L.001 35W	--	--	--	--	--	--	--
82-05-11	1300	479	L.001	--	--	L.001	.005	L.001	L.001	L.002
82-06-08	1230	479	L.001	--	--	--	--	--	--	--
82-07-13	1200	479	.002	--	--	--	--	--	--	--
82-08-04	1230	479	.002	--	--	L.001	.003	L.001	L.001	L.002
82-09-14	1200	479	.003	--	--	--	--	--	--	--
82-10-06	1345	479	.001	--	--	L.001	.006	.002	L.001	L.002
82-11-02	1230	479	.001	--	--	--	--	--	--	--
82-12-07	1330	479	.001	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-12	1345	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-11	1300	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-04	1230	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-06	1345	479	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-12	1345	479	L.002	L.0020	L.001	L.003	L.002	L.2	400	L.009
82-05-11	1300	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-04	1230	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-06	1345	479	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-12	1345	479	L.004	.030	L.004		L.002	L.002	L.005	L.002
82-05-11	1300	479	L.004	L.002	L.004		L.002	L.002	L.005	L.002
82-08-04	1230	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-10-06	1345	479	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-12	1345	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-05-11	1300	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-04	1230	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-06	1345	479	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL05EC0005 LAT. 54D 0M 10S LONG. 112D 23M 53S
NORTH SASKATCHEWAN RIVER AT PAKAN. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-12	1345	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-05-11	1300	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-04	1230	479	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-06	1345	479	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL06AD0001 LAT. 54D 21M 15S LONG. 110D 12M 42S
BEAVER RIVER AT BEAVER CROSSING. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-15	1500	462	.0	18.6	626.	580.	7.6	7.2	--	6.4
82-03-18	1100	462	.0	19.4	609.	559.	7.3	7.2	--	2.8
82-04-22	0815	462	1.5	23.1	276.	279.	7.9	7.5	70.0	175.0
82-05-13	0750	462	10.0	20.2	196.	189.	7.9	7.9	8.0	6.7
82-06-17	0645	462	17.5	22.7 61R	320.	295. 41R	8.1	8.1 01R	10.0	10.0 73R
82-07-14	1340	462	21.5	24.7	294	282.	8.2	8.2	9.0	7.3
82-08-25	1430	462	13.0	23.1	394.	340.	8.2	8.4	5.0	4.1
82-09-22	1545	462	13.5	15.3	393	343.	8.2	8.5	2.2	2.2
82-10-20	1430	462	2.5	15.0	452.	418.	8.2	8.3	3.4	3.6
82-11-10	1415	462	.0	17.8	600	555.	7.7	7.8	4.6	4.4
82-12-15	1330	462	.0	12.9	615.	569.	7.2	7.3	4.0	5.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-02-15	1500	462	50	10.	6	L.001	14.	8	-	.3
82-03-18	1100	462	20	3	2.	.002	L2.	L2		3
82-04-22	0815	462	70	78	66	.016	150.	105.	--	11.5
82-05-13	0750	462	50	17.	14	.010	8.	4.	--	9.5
82-06-17	0645	462	40 21R	13 01R	10 01R	.009 17T	14 02U	10 12U	--	7.7
82-07-14	1340	462	40	16.	12.	.010	50.	8.	--	7.5
82-08-25	1430	462	30	5.	4.	.004	30.	22		10.7
82-09-22	1545	462	30	3	2	.006	10.	4	-	12.0
82-10-20	1430	462	20.	7.	6	.005	20	L2	--	13.1
82-11-10	1415	462	30	3	1	.005	4.	2		10.0
82-12-15	1330	462	20.	5	3	.001	2.	L2.		6

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-15	1500	462	0.	0	384	315.0	67.80	25.4	273.9	35.0
82-03-18	1100	462	0	0	372	305.0	64.40	24.7	262.5	34.0
82-04-22	0815	462	0	0	128.	105.0	26.80	12.9	120.0	13.0
82-05-13	0750	462	0	0	112.	92.0	23.10	8.2	91.4	6.4
82-06-17	0645	462	0	0 51R	183	150.0 01R	36.10 03R	12.1 02R	140.0	13.0 03R
82-07-14	1340	462	0	0	177	145.0	34.80	12.5	138.4	10.0
82-08-25	1430	462	4.	3.4	223	190.0	42.00	17.2	175.7	16.0
82-09-22	1545	462	5	4.2	228	195.0	45.00	17.1	182.8	21.0
82-10-20	1430	462	0.	.0	274	225.0	51.70	19.2	208.1	21.0
82-11-10	1415	462	0	0	366	300.0	60.00	22.5	242.5	32.0
82-12-15	1330	462	0	0	378.	310.0	69.50	24.7	275.2	27.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-15	1500	462	3.2	6.9	.16	22	16.0	365.	L1.000	.004
82-03-18	1100	462	3.1	6.9	.16	22.	16.0	354.	L1.000	.003
82-04-22	0815	462	6.4	4.3	.13	24.	6.2	157.	L1.000	.010
82-05-13	0750	462	2.0	1.5	.06	6.	5.0	107.	--	.002
82-06-17	0645	462	1.6 03R	2.3 06R	.10 05R	7. 06R	4.6 05R	167	-	.003 04W
82-07-14	1340	462	1.3	1.8	.12	7.	4.8	159	--	.003
82-08-25	1430	462	1.7	3.5	.16	9.	1.9	205.	-	.003
82-09-22	1545	462	2.1	3.7	.14	10	1.4	217	--	.004
82-10-20	1430	462	2.1	4.6	.19	15.	4.0	253	--	.003
82-11-10	1415	462	2.7	6.7	.23	22.	8.2	334	--	.003
82-12-15	1330	462	2.6	7.0	.16	22.	14.0	353.	L1.000	.005

STATION - 00AL06AD0001 LAT. 54D 21M 15S LONG. 110D 12M 42S
BEAVER RIVER AT BEAVER CROSSING. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-15	1500	462	.093	.026	.067	.17	1.00	1.10	.10	1.20
82-03-18	1100	462	.085	.035	.050	.27	1.00	1.00	L.01	1 00
82-04-22	0815	462	.380	.150	.230	48	1.10	1.10	.61	1.70
82-05-13	0750	462	.092	.037	.055	L.01	38	.37	15	.52
82-06-17	0645	462	.170 06R	.035 03V	.140 01R	.01 10V	.34 51V	.36 51R	.32 02R	--
82-07-14	1340	462	.078	.030	.048	L 01	.45	.45	19	64
82-08-25	1430	462	.057	028	.029	.07	43	.44	.07	.51
82-09-22	1545	462	061	054	.007	.04	.44	.42	05	47
82-10-20	1430	462	078	055	.023	18	.52	.50	06	56
82-11-10	1415	462	.069	043	.026	.21	.65	68	L.01	68
82-12-15	1330	462	.074	.028	046	16	.73	.65	06	71

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-15	1500	462	L.1	.026	11 0	67	11 7	16 05D	.0011	L.0005
82-03-18	1100	462	.8	033	10 0	.30	10 3	16 05D	0009	L.0005
82-04-22	0815	462	.3	.130	11.0	4 70	15 7	22 05D	0009	L.0005
82-05-13	0750	462	L 1	.027	11.0	1 10	12 1	10 05D	0007	L.0005
82-06-17	0645	462	L.1 06W	024 56V	12.0 04R	1.80 02R	13 8	09 05V	L 0005 04V	L.0005 02V
82-07-14	1340	462	L 1	026	14.0	1.30	15 3	09 05D	0008	L.0005
82-08-25	1430	462	L 1	025	12.0	49	12.5	08 05D	0008	L.0005
82-09-22	1545	462	L 1	030	12 0	29	12 3	07 05D	0007	L 0005
82-10-20	1430	462	L 1	041	11.0	44	11.4	10 05D	0005	L 0005
82-11-10	1415	462	L 1	.034	13 0	4 00	17 0	.13 05D	L 0005	L 0005
82-12-15	1330	462	3	022	14 0	40	14 4	16 05D	L 0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-15	1500	462	15		--	3 20	-	40	L 02	L 001
82-03-18	1100	462	L 06	-		2.30		07	L 02	003
82-04-22	0815	462	10			13		24	L 02	.007
82-05-13	0750	462	16			34	-	L 04	L 02	001
82-06-17	0645	462	10 02W	-	--	01 04I	--	04 04I	L 02 11W	L 001 20W
82-07-14	1340	462	07		--	L 01	--	05	L 02	002
82-08-25	1430	462	02	-		03	--	L 04	L 02	L 001
82-09-22	1545	462	03	-	--	02	--	06	L 02	L 001
82-10-20	1430	462	05			03	--	08	L 02	L 001
82-11-10	1415	462	L 06	-	--	08	-	08	L 02	L 001
82-12-15	1330	462	L 02			1 30	--	08	L 02	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-15	1500	462	L.015	L.002	.002	L.001	L 001	L.001	.12	L.004
82-03-18	1100	462	L 015	L.002	L.002	L.001	002	L.001	13	L.004
82-04-22	0815	462	L 015	L 002	.002	.008	008	L.001	L 05	L.004
82-05-13	0750	462	L.015	L 002	L.002	.001	001	L.001	L.05	L.004
82-06-17	0645	462	L.015 02W	L 002 20W	L.002 20W	.002 20W	L 001 20W	L.001 20W	L.05 20W	L.004 20W
82-07-14	1340	462	L 015	L 002	.004	.013	032	L.001	07	L 004
82-08-25	1430	462	L 015	L 002	.003	L.001	--	L.001	07	L 004
82-09-22	1545	462	L.015	L 002	L.002	.001	.002	L.001	06	L 004
82-10-20	1430	462	L.015	L 002	L 002	001	003	L.001	06	L 004
82-11-10	1415	462	L.015	L 002	L.002	005	.003	L.001	08	L 004
82-12-15	1330	462	L 015	L 002	002	L.001	001	L.001	08	L.004

STATION - 00AL06AD0001 LAT 54D 21M 15S LONG. 110D 12M 42S
BEAVER RIVER AT BEAVER CROSSING. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-02-15	1500	462	.003	L1.0	L1.0	L.001	L.001	L.001	L.001	L.002
82-03-18	1100	462	.001	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-04-22	0815	462	.005	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-05-13	0750	462	L.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-06-17	0645	462	.001 35W	L1.0 00W	L1.0 10W	L.001 11R	.001 75R	L.001 70R	L.001 30R	L.002 10R
82-07-14	1340	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-08-25	1430	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-09-22	1545	462	.003	L1.0	L1.0	L.001	.001	L.001	L.001	L.002
82-10-20	1430	462	.002	--	--	L.001	L.001	L.001	L.001	L.002
82-11-10	1415	462	.003	--	--	L.001	.005	L.001	L.001	L.002
82-12-15	1330	462	.002	--	--	L.001	L.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-02-15	1500	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-18	1100	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-22	0815	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-13	0750	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-17	0645	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-07-14	1340	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-25	1430	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-22	1545	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-20	1430	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-10	1415	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-15	1330	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-02-15	1500	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-18	1100	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-22	0815	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-13	0750	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-17	0645	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-07-14	1340	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-25	1430	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-22	1545	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-20	1430	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-10	1415	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-15	1330	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-02-15	1500	462	L.004	L.002	L.004	.4	L.002	L.002	L.005	L.002
82-03-18	1100	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-22	0815	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-13	0750	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-17	0645	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-07-14	1340	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-25	1430	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-22	1545	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-20	1430	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-10	1415	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-15	1330	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07AA0015
ATHABASCA RIVER AT HWY 93A. ATHABASCA FALLS.
LAT. 52D 39M 51S LONG. 117D 52M 50S
JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG.C	02061L TEMP. WATER DEG.C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	0920	417	.0	17.1	206.	209.	8.1	8.0	1	3.2
82-02-01	1335	417	.0	21.0	207.	205.	8.2	8.0	1.2	3.8
82-03-22	1330	417	1.5	20.5	218.	213.	8.0	8.0	--	1.9
82-04-05	1300	417	1.5	20.8	218.	214.	8.1	8.1	--	1.9
82-05-03	1240	417	3.0	20.6	191.	207.	8.1	8.0	8.0	4.3
82-06-07	1230	417	5.0	24.1	155.	164.	8.1	8.1	15.0	14.0
82-07-05	1230	417	6.0	20.7	146.	130.	8.3	8.1	90.0	58.0
82-08-17	1215	417	8.5	17.7	152.	139.	8.3	8.2	--	24.0
82-09-13	1300	417	5.0	21.5	155.	150.	7.9	8.1	20.0	20.0
82-10-04	1245	417	3.5	16.9	174.	162.	8.0	8.1	3.0	5.0
82-11-02	1230	417	.5	18.6	197.	182.	8.0	8.0	3.4	3.5
82-12-06	1315	417	0	15.5	206.	189.	8.0	8.1	--	2.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-12	0920	417	5.	2.	-	L.001	L1	L1	L1.	12.0
82-02-01	1335	417	5	15.	-	L.001	L1	L1	L1.	-
82-03-22	1330	417	5	2.	--	L.001	L1.	L1	L1.	12.4
82-04-05	1300	417	5	1	-	L.001	L1	L1	L1	11.7
82-05-03	1240	417	5	11	--	L.001	L1.	L1	2.	11.9
82-06-07	1230	417	10	16	-	L.001	L1	L1	1	11.0
82-07-05	1230	417	15	97	-	L.001	26	4	6.	11.0
82-08-17	1215	417	20.	33	-	L.001	8.	12	10	10.2
82-09-13	1300	417	10	14	-	.001	17	L1	14.	10.9
82-10-04	1245	417	10	3.	-	L.001	5	L1	15.	10.9
82-11-02	1230	417	5	3	-	L.001	L1.	L1	1.	13.6
82-12-06	1315	417	5	7	-	L.001	L1	L1	L1	10.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-12	0920	417	0	0	105	86.0	27.30	9.7	108.1	.8
82-02-01	1335	417	0	0	105	86.0	27.40	10.0	109.6	1.0
82-03-22	1330	417	0	0	110	90.0	27.80	9.9	110.2	1.0
82-04-05	1300	417	0	0	110	90.0	29.00	9.7	112.4	.9
82-05-03	1240	417	0	0	99	81.0	25.60	9.1	101.4	.7
82-06-07	1230	417	0.	0	85	70.0	21.90	7.0	83.5	.9
82-07-05	1230	417	0	0	82	67.0	21.10	5.8	76.6	.6
82-08-17	1215	417	0	0	79	65.0	21.40	6.3	79.4	.6
82-09-13	1300	417	0.	0	88	72.0	23.20	6.6	85.1	.5
82-10-04	1245	417	0	0	87	71.0	23.00	7.4	87.9	.6
82-11-02	1230	417	0.	0	102	84.0	26.50	9.0	103.2	1.0
82-12-06	1315	417	0	0	104.	85.0	26.50	9.5	105.3	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	0920	417	.3	3	.08	19	4.3	113	-	--
82-02-01	1335	417	.4	3	.07	20	4.0	115.		-
82-03-22	1330	417	.3	4	.05	20.	4.2	118		--
82-04-05	1300	417	.3	4	.05	20	4.0	118	--	--
82-05-03	1240	417	.3	5	.05	16.	3.7	105	--	-
82-06-07	1230	417	.3	.3	.05	12	3.4	88	-	-
82-07-05	1230	417	.3	.3	.07	8.	3.0	80	--	--
82-08-17	1215	417	.2	.2	.07	11	2.3	81	-	--
82-09-13	1300	417	.3	.3	L.05	12	2.8	89.	--	--
82-10-04	1245	417	.3	.3	L.05	14	3.2	91	--	--
82-11-02	1230	417	.3	.3	.10	18	3.7	109		
82-12-06	1315	417	.3	.4	.06	24.	4.2	117.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07AA0015 LAT. 52D 39M 51S LONG. 117D 52M 50S
ATHABASCA RIVER AT HWY 93A. ATHABASCA FALLS. JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-12	0920	417	L.003	L.003	L.006	.11	.11	13	L.01	.13
82-02-01	1335	417	.007	L.003	L.006	11	.11	.11	L.01	.11
82-03-22	1330	417	L.003	L.003	L.006	11	.10	10	L.01	.10
82-04-05	1300	417	.009	.006	L.006	10	.10	.11	L.01	.11
82-05-03	1240	417	.006	.003	L.006	08	.09	10	L.01	10
82-06-07	1230	417	018	L.003	016	10	.12	11	L.01	.11
82-07-05	1230	417	130	L.003	130	.05	07	.08	L.01	08
82-08-17	1215	417	.025	L.003	.023	.05	.05	09	L.01	09
82-09-13	1300	417	.013	L.003	011	05	.05	07	L.01	.07
82-10-04	1245	417	009	L.003	007	06	.07	06	L.01	.06
82-11-02	1230	417	006	L.003	L.006	08	.09	.09	L.01	.09
82-12-06	1315	417	003	L.003	L.006	10	.10	10	L.01	.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	0920	417	L.1	--	.5	11	6	.03 05D	L.0005	L.0005
82-02-01	1335	417	L.1	--	5	35	9	03 05D	L.0005	L.0005
82-03-22	1330	417	L.1	--	6	09	7	.02 05D	L.0005	L.0005
82-04-05	1300	417	L.1	--	.6	09	7	.03 05D	L.0005	L.0005
82-05-03	1240	417	L.1	--	1.6	.28	1.9	03 05D	L.0005	L.0005
82-06-07	1230	417	L.1	-	1.5	66	2.2	04 05D	L.0005	L.0005
82-07-05	1230	417	L.1	--	1.2	4.40	5.6	01 05D	L.0005	L.0005
82-08-17	1215	417	L.1	--	6	2.00	2.6	.02 05D	L.0005	L.0005
82-09-13	1300	417	L.1		8	79	1.6	L.02 05D	L.0005	L.0005
82-10-04	1245	417	L.1	--	7	21	.9	02 05D	L.0005	L.0005
82-11-02	1230	417	L.1		1.3	.14	1.4	05 05D	L.0005	L.0005
82-12-06	1315	417	L.1	-	4	10	.5	.04 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	0920	417				L.01	-	L.04	L.02	-
82-02-01	1335	417	-		-	L.01		L.04	L.02	-
82-03-22	1330	417	-		-	L.01	-	L.04	L.02	--
82-04-05	1300	417		-	--	L.01	--	L.04	L.02	--
82-05-03	1240	417		-	-	L.01	-	L.04	L.02	-
82-06-07	1230	417		-		L.01	-	L.04	.03	-
82-07-05	1230	417		--	-	L.01	-	L.04	L.02	-
82-08-17	1215	417			--	L.01	--	L.04	L.02	-
82-09-13	1300	417			-	L.01		L.04	L.02	-
82-10-04	1245	417	--	-	-	L.01	--	L.04	L.02	--
82-11-02	1230	417	-		-	L.01	-	L.04	.09	-
82-12-06	1315	417		--	-	L.01		L.04	L.02	--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07AA0023
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER. LAT. 53D 2M 30S LONG. 118D 5M 13S JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-11	1615	417	0	17.5	242	239	8.1	8.0	.1	1.5
82-02-01	1600	417	0	21.0	239	233	8.0	7.9	.2	1.3
82-03-22	1530	417	1.0	20.4	242	240	8.1	8.0	--	1.0
82-04-05	1500	417	.5	20.9	247	240	8.2	8.1	--	1.1
82-05-03	1415	417	4.0	20.6	217	211	8.4	8.2	11.0	5.2
82-06-07	1430	417	7.0	23.1	165	148	8.2	8.1	9.0	5.6
82-07-05	1415	417	6.5	20.7	143	128	8.1	8.1	55.0	30.0
82-08-17	1400	417	10.0	17.5	164	151	8.1	8.1	19.0	15.0
82-09-13	1500	417	7.5	23.2	162	155	7.9	8.1	13.0	14.0
82-10-04	1415	417	5.0	17.3	187	170	8.0	8.1	4.0	3.5
82-11-02	1400	417	.5	18.3	208	193	8.2	8.1	3.0	3.2
82-12-06	1500	417	0	16.5	233	214	8.0	8.1	2.8	2.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-11	1615	417	5	1	--	.001	154	58	14	11.1
82-02-01	1600	417	5	1			20	20	10	
82-03-22	1530	417	5	91		L .001	L2	L2	L2	12.3
82-04-05	1500	417	5	1	--	L .001	L2	L2	L2	11.9
82-05-03	1415	417	5	10	--	.002	L2	L2	L2	12.6
82-06-07	1430	417	10	12	--	L .001	4	3	11	10.9
82-07-05	1415	417	5	57		L .001	92	2	L2	11.2
82-08-17	1400	417	20	17		L .001	42	L2	22	10.0
82-09-13	1500	417	5	20		.001	80	4	14	10.6
82-10-04	1415	417	10	3	--	L .001	22	L2	4	12.1
82-11-02	1400	417	5	9		.002	36	L2	L2	14.2
82-12-06	1500	417	5	17		.001	6	11	2	11.4

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-11	1615	417	0	0	116	95.0	31.90	10.8	124.1	1.4
82-02-01	1600	417	0	0	115	94.0	29.90	10.8	119.1	1.5
82-03-22	1530	417	0	0	116	95.0	30.20	10.7	119.5	1.9
82-04-05	1500	417	0	0	122	100.0	32.50	10.7	125.2	1.6
82-05-03	1415	417	0	0	106	87.0	28.50	9.9	111.9	1.5
82-06-07	1430	417	0	0	84	69.0	22.30	6.8	83.7	.8
82-07-05	1415	417	0	0	77	63.0	21.20	5.8	76.8	.6
82-08-17	1400	417	0	0	74	65.0	21.80	6.8	82.4	.7
82-09-13	1500	417	0	0	82	67.0	23.40	6.8	86.4	.9
82-10-04	1415	417	0	0	89	73.0	24.00	7.8	92.0	1.1
82-11-02	1400	417	0	0	101	83.0	25.10	8.3	96.9	2.0
82-12-06	1500	417	0	0	112	92.0	30.80	10.8	121.4	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-11	1615	417	.4	.9	.09	25	4.3	132	--	.001
82-02-01	1600	417	.4	.9	.08	25	4.0	129	--	L.001
82-03-22	1530	417	.4	1.3	.13	26	4.0	132	--	.002
82-04-05	1500	417	.4	1.1	.06	26	4.0	136	--	.001
82-05-03	1415	417	.4	1.0	.06	22	3.7	119	--	L.001
82-06-07	1430	417	.2	.4	L.05	12	3.0	87	--	L.001
82-07-05	1415	417	.4	.3	L.05	9	2.3	78	--	.003
82-08-17	1400	417	.3	.3	.06	14	2.6	86	--	L.001
82-09-13	1500	417	.4	.3	L.05	15	2.8	90	--	L.001
82-10-04	1415	417	.4	.5	L.05	18	3.1	99	--	.003
82-11-02	1400	417	.4	.7	.10	22	3.6	112	--	L.001
82-12-06	1500	417	.4	.9	.08	28	4.2	132	--	L.001

STATION - 00AL07AA0023 — LAT. 53D 2M 30S LONG. 118D 5M 13S
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER. JASPER NATIONAL PARK, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-11	1615	417	.007	.005	L.006	.12	.15	.17	L.01	.17
82-02-01	1600	417	.009	.007	L.006	.13	.15	.14	L.01	.14
82-03-22	1530	417	.020	.009	.011	.11	.12	.12	L.01	.12
82-04-05	1500	417	.020	.005	.015	.11	.12	.12	L.01	.12
82-05-03	1415	417	.014	L.003	.012	.05	.08	.09	.04	.13
82-06-07	1430	417	.014	L.003	.012	.07	.10	.10	L.01	.10
82-07-05	1415	417	.032	L.003	.031	.04	.07	.08	L.01	.08
82-08-17	1400	417	.020	L.003	.018	.04	.06	.06	L.01	.06
82-09-13	1500	417	.012	L.003	.010	.04	.06	.07	L.01	.07
82-10-04	1415	417	.008	L.003	.006	.05	.07	.07	L.01	.07
82-11-02	1400	417	.008	.004	L.006	.07	.08	.08	L.01	.08
82-12-06	1500	417	.011	.005	.006	.10	.10	.10	L.01	.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-11	1615	417	L.1	--	.8	.16	1.0	.04 .05D	L.0005	L.0005
82-02-01	1600	417	L.1	--	1.0	.11	1.1	.03 .05D	L.0005	L.0005
82-03-22	1530	417	L.1	--	.6	.14	.7	.03 .05D	L.0005	L.0005
82-04-05	1500	417	L.1	--	.7	.12	.8	.04 .05D	L.0005	L.0005
82-05-03	1415	417	L.1	--	1.4	.49	1.9	.02 .05D	L.0005	L.0005
82-06-07	1430	417	L.1	--	1.8	.48	2.3	.04 .05D	L.0005	L.0005
82-07-05	1415	417	L.1	--	1.5	1.50	3.0	.02 .05D	L.0005	L.0005
82-08-17	1400	417	L.1	--	.7	.83	1.5	.03 .05D	L.0005	L.0005
82-09-13	1500	417	L.1	--	.7	.71	1.4	L.02 .05D	L.0005	L.0005
82-10-04	1415	417	L.1	--	.8	.21	1.0	.02 .05D	L.0005	L.0005
82-11-02	1400	417	L.1	--	1.4	.35	1.8	.03 .05D	L.0005	L.0005
82-12-06	1500	417	L.1	--	.5	.60	1.1	.04 .05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-11	1615	417	--	--	--	L.01	--	L.04	L.02	L.001
82-02-01	1600	417	--	--	--	L.01		L.04	L.02	L.001
82-03-22	1530	417	--	--	--	.01		L.04	L.02	L.001
82-04-05	1500	417	--	--	--	L.01	--	L.04	L.02	L.001
82-05-03	1415	417	--	--	--	L.01	--	L.04	L.02	L.001
82-06-07	1430	417	--	--	--	L.01	--	L.04	L.02	L.001
82-07-05	1415	417	--	--	--	L.01	--	L.04	L.02	.002
82-08-17	1400	417	--	--	--	L.01	--	L.04	L.02	L.001
82-09-13	1500	417	--	--	--	L.01	--	L.04	L.02	L.001
82-10-04	1415	417	--	--	--	L.01	--	L.04	L.02	L.001
82-11-02	1400	417	--	--	--	L.01	--	L.04	L.02	L.001
82-12-06	1500	417	--	--	--	L.01	--	L.04	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-11	1615	417	--	L.002	L.002	L.001	.004	L.001	.05	L.004
82-02-01	1600	417	--	--	L.002	--	--	L.001	.07	L.004
82-03-22	1530	417	--	L.002	L.002	.001	.008	L.001	.08	L.004
82-04-05	1500	417	--	L.002	L.002	L.001	.005	L.001	L.05	L.004
82-05-03	1415	417	--	L.002	L.002	L.001	.002	L.001	.05	L.004
82-06-07	1430	417	--	L.002	L.002	.001	.001	L.001	L.05	L.004
82-07-05	1415	417	--	L.002	L.002	.001	.004	L.001	L.05	L.004
82-08-17	1400	417	--	L.002	L.002	L.001	--	L.001	.05	L.004
82-09-13	1500	417	--	L.002	.006	.001	.013	L.001	L.05	L.004
82-10-04	1415	417	--	L.002	--		--	L.001	L.05	L.004
82-11-02	1400	417	--	L.002	L.002	L.001	.002	L.001	L.05	L.004
82-12-06	1500	417	--	L.002	L.002	L.001	.001	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07AA0023
ATHABASCA RIVER AT HWY 16 BRIDGE — BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA
LAT. 53D 2M 30S LONG. 118D 5M 13S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-11	1615	417	.001	--	--	L .001	L .001	L .001	L .001	L .002
82-02-01	1600	417	L .001	--	--	L .001	L .001	L .001	L .001	L .002
82-03-22	1530	417	L .001	--	--	L .001	L .001	L .001	L .001	L .002
82-04-05	1500	417	L .001	--	--	L .001	L .001	L .001	L .001	L .002
82-05-03	1415	417	L .001	--	--	L .001	L .001	L .001	L .001	L .002
82-06-07	1430	417	L .001	--	--	L .001	L .001	L .001	L .001	L .002
82-07-05	1415	417	.001	--	--	L .001	.001	L .001	L .001	L .002
82-08-17	1400	417	L .001	--	--	L .001	.002	L .001	L .001	L .002
82-09-13	1500	417	L .001	-	--	L .001	.001	L .001	L .001	L .002
82-10-04	1415	417	L .001	--	--	L .001	.002	L .001	L .001	L .002
82-11-02	1400	417	L .001	--	--	L .001	.001	L .001	L .001	L .002
82-12-06	1500	417	.002	--	--	L .001	L .001	L .001	L .001	L .002
						L .001	L .001	L .001	L .001	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-11	1615	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-02-01	1600	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-03-22	1530	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-05	1500	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-03	1415	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-07	1430	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-05	1415	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-17	1400	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-13	1500	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-04	1415	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-02	1400	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-12-06	1500	417	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-11	1615	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-02-01	1600	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-03-22	1530	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-04-05	1500	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-05-03	1415	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-06-07	1430	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-05	1415	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-08-17	1400	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-09-13	1500	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-10-04	1415	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-11-02	1400	417	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-12-06	1500	417	L .002	L .0020	L .001	L .003	L .002	--	--	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-11	1615	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-02-01	1600	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-03-22	1530	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-04-05	1500	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-05-03	1415	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-06-07	1430	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-07-05	1415	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-08-17	1400	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-09-13	1500	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-10-04	1415	417	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-11-02	1400	417	L .004	L .002	L .004	2	L .002	L .002	L .005	L .002
82-12-06	1500	417	--	--	--	L 2	L .002	L .002	L .005	L .002
						L 2	L .002	L .002	L .005	L .002

FOOTNOTE: L - LESS THAN DETECTION LIMIT — G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION — G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00AL07BE0001
ATHABASCA RIVER AT ATHABASCA, ALBERTA

LAT. 54D 43M 18S LONG. 113D 17M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	0900	479	0	21.7	467	472	7.8	7.7	--	2.0
82-02-12	0930	479	1.0	20.8	417	423	7.7	7.6	--	1.7
82-03-09	0900	479	1.0	14.5	409	411	7.5	7.8	--	1.6
82-04-06	0745	479	1.0	21.2	420	425	7.5	7.6	--	2.0
82-05-11	0900	479	7.0	22.0	203	191	7.9	7.9	90.0	52.0
82-06-08	0900	479	14.5	21.7	234	226	7.9	8.0	104.0	61.0
82-07-13	0845	479	17.5	20.9	207	193	7.8	8.0	6200.0	180.0
82-08-04	0900	479	16.0	22.7	227	211	7.7	8.1	-	65.0
82-09-14	0900	479	9.0	21.0	243	227	7.8	8.2	--	30.0
82-10-06	0800	479	7.0	24.0	276	256	8.2	8.2	--	7.7
82-11-02	0900	479	1.5	19.0	301	286	8.1	8.2	--	5.8
82-12-07	0915	479	0	17.5	473	443	7.9	8.0	4.0	4.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717L CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-12	0900	479	30	11	--	.001	3	1	11	11.4
82-02-12	0930	479	30	2		<.001	11	11	11	8.7
82-03-09	0900	479	20	1	--	.001	20	4	11	8.0
82-04-06	0745	479	20	1		<.001	5		12	8.1
82-05-11	0900	479	20	119	--	.005	-	20	110	10.9
82-06-08	0900	479	20	163	--	<.001	--	85	73	9.4
82-07-13	0845	479	50	410	--	.008	-	60	360	7.9
82-08-04	0900	479	40	134		.003		65	180	8.4
82-09-14	0900	479	40	73		.009	20	4	130	10.0
82-10-06	0800	479	30	20 010		.004 171	40 020	2 170	80 030	11.3
82-11-02	0900	479	20	8		.002	6800	10	18	13.7
82-12-07	0915	479	30	6		.001	14	12	70	12.6

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-12	0900	479	0	0	229	188.0	61.60	16.9	223.4	12.0
82-02-12	0930	479	0	0	201	165.0	58.00	15.4	208.2	13.0
82-03-09	0900	479	0	0	201	165.0	54.90	15.4	200.5	14.0
82-04-06	0745	479	0	0	207	170.0	55.80	15.3	202.3	14.0
82-05-11	0900	479	0	0	102	84.0	26.70	6.5	93.4	5.9
82-06-08	0900	479	0	0	121	99.0	32.10	8.6	115.6	4.1
82-07-13	0845	479	0	0	116	95.0	28.80	7.1	101.1	4.2
82-08-04	0900	479	0	0	120	98.0	31.80	7.6	110.2	3.9
82-09-14	0900	479	0	0	128	105.0	34.70	9.2	123.3	4.2
82-10-06	0800	479	0	0	146	120.0	38.50	9.7	136.1	6.5
82-11-02	0900	479	0	0	166	136.0	38.00	10.3	137.7	7.5
82-12-07	0915	479	0	0	245	201.0	60.80	16.7	220.6	11.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	0900	479	1.6	7.1	.15	48	6.0	266	--	
82-02-12	0930	479	1.5	7.7	.12	49	5.8	249	--	--
82-03-09	0900	479	1.6	6.6	.11	46	5.6	243		--
82-04-06	0745	479	1.5	7.7	.09	46	6.0	248		--
82-05-11	0900	479	2.5	1.7	.05	14	5.4	113	--	
82-06-08	0900	479	.9	1.4	.09	20	4.1	131	--	--
82-07-13	0845	479	1.0	.9	.13	13	4.8	117	--	
82-08-04	0900	479	.6	1.0	.11	15	4.9	123	--	--
82-09-14	0900	479	.8	1.2	.08	18	4.4	135	--	--
82-10-06	0800	479	.9	1.6	.09	18	5.0	152		--
82-11-02	0900	479	1.0	1.6	.14	25	4.7	170	--	--
82-12-07	0915	479	1.4	5.5	.18	36	7.2	259	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07BE0001
ATHABASCA RIVER AT ATHABASCA, ALBERTA

LAT. 54D 43M 18S LONG. 113D 17M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-12	0900	479	.009	.005	L .006	.10	.35	.33	L .01	.33
82-02-12	0830	479	.008	.007	L .006	.14	.30	.28	L .01	.28
82-03-09	0900	479	.010	.007	L .006	.15	.29	.28	L .01	.28
82-04-06	0745	479	.009	.005	L .006	.40	.40	.30	L .01	.30
82-05-11	0900	479	.130	.021	.110	.10	.51	.47	.41	.88
82-06-08	0900	479	.120	.010	.110	.10	.20	.17	.23	.40
82-07-13	0845	479	.420	.005	.410	.16	.38	.29	.75	1.00
82-08-04	0900	479	.140	.004	.140	.08	.24	.20	.27	.47
82-09-14	0900	479	.055	.003	.052	.05	.19	.17	.16	.33
82-10-06	0800	479	.018 .06R	.003 .03V	.015 .01R	L .01 .10V	.15 .51V	.15 .51R	.08 .02R	-
82-11-02	0900	479	.015	.005	.010	.02	.17	.17	L .01	.17
82-12-07	0915	479	.013	.006	.007	.07	.27	.28	L .01	.28

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	0900	479	L .1		5.9	.17	6.1	.09 .05D	L .0005	L .0005
82-02-12	0830	479	L .1		5.0	.11	5.1	.08 .05D	L .0005	L .0005
82-03-09	0900	479	L .1		5.5	.15	5.7	.10 .05D	L .0005	L .0005
82-04-06	0745	479	L .1		5.2	.20	5.4	.11 .05D	L .0005	L .0005
82-05-11	0900	479	L .1		12.0	3.96	15.9	.13 .05D	L .0005	L .0005
82-06-08	0900	479	L .1		4.8	5.20	10.6	.05 .05D	L .0005	L .0005
82-07-13	0845	479	L .1		9.5	9.80	19.3	.09 .05D	.0005	L .0005
82-08-04	0900	479	L .1		5.8	4.00	9.8	.07 .05D	L .0005	L .0005
82-09-14	0900	479	L .1		4.9	2.60	7.5	.06 .05D	L .0005	L .0005
82-10-06	0800	479	L .1 .06W		5.8 .04R	.74 .02R	6.5	.07 .05V	L .0005 .04V	L .0005 .02V
82-11-02	0900	479	L .1		4.7	.44	5.1	.07 .05D	L .0005	L .0005
82-12-07	0915	479	L .1		6.1	.28	6.4	.15 .05D	L .0005	L .0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE MN MG/L	25104L MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE FE MG/L	26104L IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	0900	479		L .004		L .01		.07	L .02	L .001
82-02-12	0830	479				L .01		.05	L .02	-
82-03-09	0900	479				.01		.07	L .02	-
82-04-06	0745	479				L .01		.08	L .02	-
82-05-11	0900	479		L .004		L .01		.15	L .02	.004
82-06-08	0900	479				L .01		.05	L .02	-
82-07-13	0845	479				L .01		.05	.04	-
82-08-04	0900	479		L .004		L .01		.06	.04	.005
82-09-14	0900	479				L .01		.06	L .02	-
82-10-06	0800	479		L .004 .01W		L .01 .04I		.06 .04I	L .02 .11W	.001 .20W
82-11-02	0900	479				L .01		.08	L .02	-
82-12-07	0915	479				L .01		.09	L .02	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-12	0900	479	--	L .002	.003	.002	.004	L .001	.09	L .004
82-05-11	0900	479	--	L .002	.003	.004	.006	L .001	.08	L .004
82-08-04	0900	479	--	L .002	.008	.005	.014	L .001	.11	.035
82-10-06	0800	479	--	L .002 .20W	.014 .20W	.002 .20W	.018 .20W	L .001 .20W	.07 .20W	L .004 .20W

STATION - 00AL07BE0001 LAT. 54D 43M 18S LONG. 113D 17M 8S
ATHABASCA RIVER AT ATHABASCA. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-12	0900	479	.001	--	--	L .001	.001	L .001	L .001	L .002
82-02-12	0930	479	.001	--	--	--	--	--	--	--
82-03-08	0900	479	L .001	--	--	--	--	--	--	--
82-04-06	0745	479	L .001	--	--	--	--	--	--	--
82-05-11	0900	479	.002	--	--	L .001	.005	L .001	L .001	L .002
82-06-08	0900	479	L .001	--	--	--	--	--	--	--
82-07-13	0845	479	.002	--	--	--	--	--	--	--
82-08-04	0900	479	.003	--	--	L .001	.002	L .001	L .001	L .002
82-09-14	0900	479	.002	--	--	--	--	--	--	--
82-10-06	0800	479	.002 35W	--	--	L .001 11R	.004 75R	L .001 70R	L .001 30R	L .002 10R
82-11-02	0900	479	.001	--	--	--	--	--	--	--
82-12-07	0815	479	.002	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-12	0900	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-11	0900	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-04	0900	479	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-06	0800	479	L .001 20R	L .001 05R	L .004 00R	L .01 30R	L .0020 40R	L .001 50R	L .003 55R	L .001 40R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-12	0900	479	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-05-11	0900	479	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-08-04	0900	479	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-10-06	0800	479	L .002 45R	L .0020 50R	L .001 25R	L .003 60R	L .002 65R	L .2 20W	L .004 00W	L .009 50W

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-12	0900	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002
82-05-11	0900	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002
82-08-04	0900	479	L .004	L .002	L .004	--	L .002	L .002	L .005	L .002
82-10-06	0800	479	L .004 55W	L .002 10W	L .004 40W	--	L .002 59R	L .002 60R	L .005 62R	L .002 64R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-12	0900	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05
82-05-11	0900	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05
82-08-04	0900	479	L .5	L .20	L .20	L .02	L .20	L .02	L .02	L .05
82-10-06	0800	479	L .5 90W	L .20 95W	L .20 05W	L .02 15W	L .20 30W	L .02 40W	L .02 45W	L .05 50W

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07BE0001
ATHABASCA RIVER AT ATHABASCA, ALBERTA

LAT. 54D 43M 18S LONG. 113D 17M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-12	0800	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-06-11	0900	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-08-04	0900	479	L .02	L .02	L .02	L .02	L .02	--	--	--
82-10-06	0800	479	L .02 60M	L .02 70M	L .02 00M	L .02 10M	L .02 20M	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

LAT. 55D 55M 18S LONG. 118D 36M 32S

STATION - 00AL07FD0002
PEACE RIVER AT HWY 2. DUNVEGAN. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	1200	1	.0	16.2	157.	189.	7.5	8.0	--	4.0
82-02-15	1100	1	.0	19.1	170	189.	8.0	7.9	--	2.5
82-03-16	1230	1	.0	21.1	170	196	8.5	7.9	--	1.1
82-04-12	1300	1	.0	21.1	162.	185.	8.4	8.1	--	11.0
82-05-10	1130	1	5.0	20.6	161	196.	8.5	8.0	--	220.0
82-06-14	1200	1	19.0	20.1	170.	197	8.1	8.1	--	71.0
82-07-12	1400	1	20.0	24.2	190	213	8.4	8.2	--	32.0
82-08-10	1200	1	18.5	18.6	204.	224.	8.1	8.1	--	110.0
82-09-21	1430	1	13.0	20.6	166.	189	8.4	8.2	--	3.3
82-10-18	1500	1	6.0	12.6	165.	184.	7.9	8.2	--	4.0
82-11-08	1300	1	1.5	15.3	164.	189	--	8.1	--	4.6
82-12-07	1045	1	.0	16.2	162.	192	8.4	8.0	--	10.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012I COLIFORMS FECAL MF NO/DL	36103I FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-12	1200	1	10	4	--	--	20	8	4	14.3
82-02-15	1100	1	10	3	--		29	6	12	13.4
82-03-16	1230	1	5	1	--		43.	2	2.	12.5
82-04-12	1300	1	10	30	--		20	12	2	10.3
82-05-10	1130	1	150.	1356	--	--	140 011	49 111	--	15.1
82-06-14	1200	1	20	160	--		130 011	79 111		11.3
82-07-12	1400	1	10	39			10	6	80	9.4
82-08-10	1200	1	60	188	--		110 011	22 111		9.0
82-09-21	1430	1	10	8	--		2	1	20	11.8
82-10-18	1500	1	10	9	--		19	1	76	11.9
82-11-08	1300	1	10	7	--		12	12	20	12.3
82-12-07	1045	1	20	9 01R			18 02U	4 12U	4 03U	14.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-12	1200	1	0	0	106	87.0	27.90	6.4	96.6	1.3
82-02-15	1100	1	0	0	105	86.0	30.20	6.3	101.4	1.5
82-03-16	1230	1	0	0	105	86.0	29.10	6.2	98.2	1.8
82-04-12	1300	1	0	0	100	82.0	29.10	6.8	100.7	1.5
82-05-10	1130	1	0	0	93	76.0	29.00	6.5	99.2	3.9
82-06-14	1200	1	0	0	113	93.0	28.90	6.6	99.3	1.4
82-07-12	1400	1	0	0	128	105.0	34.60	8.9	123.0	2.3
82-08-10	1200	1	0	0	128	105.0	34.70	8.2	120.4	3.4
82-09-21	1430	1	0	0	116	95.0	31.70	7.2	108.8	1.7
82-10-18	1500	1	0	0	112	92.0	30.00	6.7	102.5	1.5
82-11-08	1300	1	0	0	116	95.0	27.80	6.6	96.6	2.0
82-12-07	1045	1	0	0	112	92.0	30.40	6.8	103.9	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	1200	1	.4	.7	.06	10	4.4	103	--	--
82-02-15	1100	1	.5	.7	L .05	11	4.4	106	--	--
82-03-16	1230	1	.4	.7	L .05	11	4.0	105.	--	--
82-04-12	1300	1	.4	.8	L .05	12	3.8	104	--	--
82-05-10	1130	1	1.6	1.8	.07	24	4.0	116	--	--
82-06-14	1200	1	.5	1.5	.06	10	3.0	108	--	--
82-07-12	1400	1	.5	.6	.06	12	3.5	125.	--	--
82-08-10	1200	1	.8	.9	.10	17	4.2	132	--	--
82-09-21	1430	1	.4	.7	L .05	11.	3.6	113.	--	--
82-10-18	1500	1	.5	.7	L .05	11	3.6	109.	--	--
82-11-08	1300	1	.4	.6	.10	11	3.6	109.	--	--
82-12-07	1045	1	.5	.7	L .05	11	4.3	111	--	--

STATION - 00AL07FD0002 LAT. 55D 55M 18S LONG. 118D 36M 32S
PEACE RIVER AT HWY 2. DUNVEGAN. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-12	1200	1	.007	L.003 03L	L.006	.07 10L	--	.13	L.01	.13
82-02-15	1100	1	.013	.007 03L	.006	.06 10L	--	.12	L.01	.12
82-03-16	1230	1	.003	L.003 03L	L.006	.04 10L	--	.09	L.01	.09
82-04-12	1300	1	.033	L.003 03L	.031	.03 10L	--	.09	.07	.16
82-05-10	1130	1	1.100	.062 03L	1.000	.07 10L	--	.39	2.00	2.40
82-06-14	1200	1	.190	.015 03L	.180	.05 10L	--	.13	.31	.44
82-07-12	1400	1	.077	.004 03L	.073	.02 10L	--	.09	.11	.20
82-08-10	1200	1	.190	.016 03L	.170	.02 10L	--	.20	.03	.23
82-09-21	1430	1	.012	.003 03L	.009	L.01 10L		.08	L.01	.08
82-10-18	1500	1	.013	.003 03L	.010	.01 10L	--	.08	L.01	.08
82-11-08	1300	1	.014	L.003 03L	.012	.02 10L	--	.12	.03	.15
82-12-07	1045	1	.019 06R	.006 03R	.013 01R	.06 10R	--	.13 51R	.03 02R	

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104I CARBON DISSOLVED ORGANIC C MG/L	06902I CARBON ORGANIC PARTICUL. C MG/L	06002I CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	1200	1	L 1	--	2.4	.23	2.6	.05	L.0005 04I	L.0005 02I
82-02-15	1100	1	L 1	--	2.7	.21	2.9	.04	L.0005 04I	L.0005 02I
82-03-16	1230	1	L 1	--	2.4	.12	2.5	.03	L.0005 04I	L.0005 02I
82-04-12	1300	1	L 1		2.4	.71	3.1	.02	L.0005 04I	L.0005 02I
82-05-10	1130	1	L 1	-	13.0	19.00	32.0	.14	L.0005 04I	L.0005 02I
82-06-14	1200	1	L 1	-	4.0	3.80	7.8	.05	L.0005 04I	L.0005 02I
82-07-12	1400	1	L 1	-	3.8	1.20	5.0	.05	L.0005 04I	L.0005 02I
82-08-10	1200	1	L 1		7.9	3.50	11.4	.07	L.0005 04I	L.0005 02I
82-09-21	1430	1	L 1	-	2.6	.71	3.3	.03	L.0005 04I	L.0005 02I
82-10-18	1500	1	L 1		2.6	.31	2.9	.04	L.0005 04I	L.0005 02I
82-11-08	1300	1	L 1		2.9	.35	3.3	.02	L.0005 04I	L.0005 02I
82-12-07	1045	1	L 1	-	2.4 04R	.25 02R	2.7	.03	L.0005 04I	L.0005 02I

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	1200	1		L.004	L.01		.08			L.001
82-06-14	1200	1		L.004	.07		1.50			.011
82-08-10	1200	1		L.004	.07		1.60			.010
82-10-18	1500	1		L.004	.01		.17			L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-12	1200	1		L.002	L.002	.001	.002	L.001	L.05	.014
82-06-14	1200	1		L.002	.004	.008	.029	L.001	.14	L.004
82-08-10	1200	1		L.002	.014	.006	.031	L.001	.15	L.004
82-10-18	1500	1		L.002	L.002	.002	.003	L.001	.06	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811I HEXACHLORO-BENZENE UG/L	18075I ALPHA-BHC UG/L	18070I GAMMA-BHC (LINDANE) UG/L	18130I ALDRIN UG/L	18010I P.P-DDE UG/L
82-01-12	1200	1	L.001			L.001	.004	L.001	L.001	L.002
82-02-15	1100	1	.001			--	--	--	--	-
82-03-16	1230	1	L.001	-	--	-	--	-	--	--
82-04-12	1300	1	L.001	--		--	-	--	--	-
82-05-10	1130	1	.002							
82-06-14	1200	1	.002	-	--	L.001	.003	L.001	L.001	L.002
82-07-12	1400	1	.001	--	--	--	--	--	--	--
82-08-10	1200	1	.001	--	-	L.001	.002	L.001	L.001	L.002
82-09-21	1430	1	L.001	--	--	--	--	--	--	--
82-10-18	1500	1	L.001	--	--	L.001	.003	L.001	L.001	L.002
82-11-08	1300	1	.005	--	--	-	--	--	--	--
82-12-07	1045	1	.002 35W	--	--	--	--	--	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07FD0002 LAT. 55D 55M 18S LONG. 118D 36M 32S
PEACE RIVER AT HWY 2. DUNVEGAN. ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-12	1200	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-14	1200	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-10	1200	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-18	1500	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-12	1200	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-14	1200	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-10	1200	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-18	1500	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-12	1200	1	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-06-14	1200	1	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-08-10	1200	1	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-10-18	1500	1	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION) UG/L	18195P AZIN-PHOSETHYL UG/L	18205P IMIDAN UG/L	18215P DISULFOTON UG/L	18230P CRUFOMATE UG/L	18240P PARATHION UG/L	18245P PARATHION-METHYL UG/L	18250P MALATHION UG/L
82-01-12	1200	1	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-06-14	1200	1	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-08-10	1200	1	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05
82-10-18	1500	1	L.5	L.20	L.20	L.02	L.20	L.02	L.02	L.05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-12	1200	1	L.02	L.02	L.02	L.02	L.02	--	--	--
82-06-14	1200	1	L.02	L.02	L.02	L.02	L.02	--	--	--
82-08-10	1200	1	L.02	L.02	L.02	L.02	L.02	--	--	--
82-10-18	1500	1	L.02	L.02	L.02	L.02	L.02	--	--	--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07GJ0001
SMOKY RIVER AT WATINO. ALBERTA

LAT. 55D 42M 56S LONG. 117D 37M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-11	1145	1	0	18.8	510	566.	8.0	7.7	--	2.9
82-02-15	1300	1	.0	19.1	510.	530	8.0	7.5	--	2.9
82-03-16	1030	1	.0	19.3	595.	567.	7.8	7.6	--	2.1
82-04-12	1030	1	.0	21.0	510	540	8.2	7.6	--	3.4
82-05-11	1030	1	7.0	22.0	166.	194.	8.0	8.0	--	220.0
82-06-15	1100	1	17.0	21.4	157.	175.	8.5	8.1	--	180.0
82-07-12	1100	1	17.0	24.5	170.	206.	8.2	8.1	--	71.0
82-08-09	1230	1	17.0	18.2	204.	221.	7.7	8.0	--	185.0
82-09-21	1200	1	14.0	22.2	232	276.	8.3	8.3	--	23.0
82-10-18	1130	1	5.0	12.3	264.	321	8.5	8.2	-	11.0
82-11-08	1030	1	.5	15.6	--	367.	8.2	8.1	--	13.0
82-12-06	1100	1	.0	14.0	480.	466.	8.4	8.0	--	5.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-11	1145	1	120	3	-	-	44	44	-	9.8
82-02-15	1300	1	100	2		--	2	2	L2	8.4
82-03-16	1030	1	70	1	--		1	L2.	L2	11.0
82-04-12	1030	1	80	4	-	-	1	L2	L2	7.5
82-05-11	1030	1	140	892	-	-	240 011	22 111	--	13.3
82-06-15	1100	1	30	538		-	540 011	33 111	-	10.9
82-07-12	1100	1	30	136		--	--	10	180	8.8
82-08-09	1230	1	120	594		-	G2400 011	79 111		8.4
82-09-21	1200	1	30	39		--	G8	1	64.	11.0
82-10-18	1130	1	30	14			10	L1	4	12.5
82-11-08	1030	1	50	14			72	4	G160	13.9
82-12-06	1100	1	60	3			9	L2	4	14.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-11	1145	1	0	0	233	191.0	71.70	17.8	252.3	27.0
82-02-15	1300	1	0	0	213	175.0	67.10	17.1	238.0	24.0
82-03-16	1030	1	0	0	244	200.0	76.20	18.9	268.1	33.0
82-04-12	1030	1	0	0	226	185.0	68.50	17.5	243.1	30.0
82-05-11	1030	1	0	0	98	80.0	27.20	6.3	93.9	6.7
82-06-15	1100	1	0	0	100	82.0	26.20	6.5	92.2	2.1
82-07-12	1100	1	0	0	110	90.0	28.90	7.9	104.7	3.1
82-08-09	1230	1	0	0	122.	100.0	33.10	7.6	113.9	5.2
82-09-21	1200	1	0	0	159	130.0	42.80	11.0	152.2	7.6
82-10-18	1130	1	0	0	183.	150.0	48.60	12.3	172.0	6.6
82-11-08	1030	1	0	0	200	164.0	53.30	14.2	191.6	12.0
82-12-06	1100	1	0	0	244	200.0	69.50	17.7	246.4	16.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-11	1145	1	1.0	26.0	16	69.	4.8	332	--	--
82-02-15	1300	1	1.0	21.0	11	76.	5.0	316	-	--
82-03-16	1030	1	1.3	28.0	12	88	5.8	371	--	--
82-04-12	1030	1	1.1	23.0	08	76.	5.2	332.	--	--
82-05-11	1030	1	2.1	2.3	05	20	4.8	117	--	--
82-06-15	1100	1	.5	1.2	08	13	3.0	102		-
82-07-12	1100	1	.5	.6	07	14.	3.7	113		--
82-08-09	1230	1	1.3	1.3	11	19.	4.7	132		--
82-09-21	1200	1	.8	2.8	.09	26.	4.2	173	--	--
82-10-18	1130	1	.8	4.0	09	31.	3.8	197	-	--
82-11-08	1030	1	1.0	7.3	24	39.	4.0	229	--	--
82-12-06	1100	1	1.1	8.9	17	56.	5.7	296.	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07GJ0001 — LAT. 55D 42M 56S LONG. 117D 37M 18S
SMOKY RIVER AT WATINO, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-11	1145	1	.013	.006 03L	.007	.07 10L	--	.17	L.01	.17
82-02-15	1300	1	.014	.010 03L	L.006	.10 10L	--	.21	L.01	.21
82-03-16	1030	1	.017	.010 03L	.007	.19 10L	--	.29	L.01	.29
82-04-12	1030	1	.016	.005 03L	.011	.11 10L	--	.22	L.01	.22
82-05-11	1030	1	.700	.054 03L	.650	.10 10L	--	.55	1.30	1.80
82-06-15	1100	1	.340	.023 03L	.320	.03 10L	--	.13	.87	1.00
82-07-12	1100	1	.120	.010 03L	.110	.02 10L	--	.15	.29	.44
82-08-09	1230	1	.470	.030 03L	.440	.01 10L	--	.35	.71	1.10
82-09-21	1200	1	.037	.005 03L	.032	.01 10L	--	.15	.05	.20
82-10-18	1130	1	.022	.007 03L	.015	L.01 10L	--	.12	L.01	.12
82-11-08	1030	1	.045	.025 03L	.020	--	--	.18	.07	.25
82-12-06	1100	1	.024	.012 03L	.012	.07 10L	--	.18	L.01	.18

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-11	1145	1	L.1	-	6.0	.43	6.4	.22	L.0005 04L	L.0005 02L
82-02-15	1300	1	L.1	-	5.6	.28	5.9	.18	L.0005 04L	L.0005 02L
82-03-16	1030	1	.1		7.5	.24	7.7	.22	L.0005 04L	L.0005 02L
82-04-12	1030	1	L.1	--	6.0	.48	6.5	.17	L.0005 04L	L.0005 02L
82-05-11	1030	1	L.1	-	17.0	17.00	34.0	.18	.0005 04L	L.0005 02L
82-06-15	1100	1	L.1	-	4.2	16.00	20.2	.05	L.0005 04L	L.0005 02L
82-07-12	1100	1	L.1	-	6.8	4.20	11.0	.08	L.0005 04L	L.0005 02L
82-08-09	1230	1	L.1	-	14.0	9.00	23.0	.13	L.0005 04L	L.0005 02L
82-09-21	1200	1	L.1	--	6.3	.61	6.9	.06	L.0005 04L	L.0005 02L
82-10-18	1130	1	L.1		4.9	.55	5.5	.07	L.0005 04L	L.0005 02L
82-11-08	1030	1	L.1		5.7	.70	6.4	.06	L.0005 04L	L.0005 02L
82-12-06	1100	1	L.1	-	5.4	.30	5.7	.16	L.0005 04L	L.0005 02L

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-11	1145	1		L.004	.02		.10			L.001
82-06-15	1100	1		L.004	.21		3.80			.027
82-08-09	1230	1	-	L.004	.36	--	6.90	-	--	.031
82-10-18	1130	1		L.004	.02	--	.28			L.001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-11	1145	1	--	L.002	.002	L.001	.010	L.001	.11	L.004
82-06-15	1100	1	--	L.002	.019	.021	.067	L.001	.23	.008
82-08-09	1230	1	--	.008	.037	.022	.073	L.001	.34	.008
82-10-18	1130	1	-	L.002	L.002	.002	.005	L.001	.11	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-11	1145	1	.003	--	-	L.001	-	L.001	L.001	L.002
82-02-15	1300	1	.003	--	--	--	--	--	-	-
82-03-16	1030	1	.003	--	-	--	-	--	--	--
82-04-12	1030	1	.001	--	--	--	--	--	-	--
82-05-11	1030	1	.003	-			-		-	-
82-06-15	1100	1	.001	-	--	--	--	-	--	--
82-07-12	1100	1	.002	--	--	--	-	-	--	--
82-08-09	1230	1	.002	--	--	L.001	.002	L.001	L.001	L.002
82-09-21	1200	1	.001	--	--	--	--	--	--	--
82-10-18	1130	1	.001	--	--	L.001	.006	L.001	L.001	L.002
82-12-06	1100	1	.004	--	-	--	--	--	--	--

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07GJ0001
SMOKY RIVER AT WATINO, ALBERTA

LAT. 55D 42M 56S LONG. 117D 37M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE	18005L O,P-DDT	18000L P,P-DDT	18030L P,P-METHOXY-CHLOR	18140L ENDRIN	18050L ALPHA-ENDOSULFAN	18055L BETA-ENDOSULFAN	18040L HEPTACHLOR
			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
82-01-11	1145	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-09	1230	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-18	1130	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE	18150L HEOD (DIELDRIN)	18125L MIREX	18060L ALPHA-(CIS) CHLORDANE	18065L GAMMA-(TRANS) CHLORDANE	18520P MCPA	18500P 2,4-D	18550P 2,4-DB
			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
82-01-11	1145	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-06-15	1100	1	--	--	--	--	--	L 2	L .004	L .009
82-08-09	1230	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-10-18	1130	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP	18510P 2,4,5-T	18540P FENOPROP (SILVEX)	18601P PICLORAM	18159L AROCLOR 1242 (PCB'S)	18160L AROCLOR 1254 (PCB'S)	18162L AROCLOR 1260 (PCB'S)	18164L AROCLOR TOTAL (PCB'S)
			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
82-01-11	1145	1	L .004	L .002	L .004		L .002	L .002	L .005	L .002
82-06-15	1100	1	L .004	L .002	L .004		--	--	--	--
82-08-09	1230	1	L .004	L .002	L .004		L .002	L .002	L .005	L .002
82-10-18	1130	1	L .004	L .002	L .004		L .002	L .002	L .005	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18190P AZIN-PHOSMETHYL (GUTHION)	18195P AZIN-PHOSETHYL	18205P IMIDAN	18215P DISULFOTON	18230P CRUFOMATE	18240P PARATHION	18245P PARATHION-METHYL	18250P MALATHION
			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
82-01-11	1145	1	L 5	L 20	L 20	L .02	L 20	L .02	L .02	L .05
82-06-15	1100	1	L 5	L 20	L 20	L .02	L 20	L .02	L .02	L .05
82-08-09	1230	1	L 5	L 20	L 20	L .02	L 20	L .02	L .02	L .05
82-10-18	1130	1	L 5	L 20	L 20	L .02	L 20	L .02	L .02	L .05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL)	18270P DIAZINON	18300P PHORATE	18310P ETHION	18320P CARBO-PHENOTHION	92111P URANIUM DISSOLVED	88502P RADIUM RADIATION	01502P TRITIUM RADIATION
			UG/L	UG/L	UG/L	UG/L	UG/L	U UG/L	RA-226 BQ/L	H-3 BQ/L
82-01-11	1145	1	L .02	L .02	L .02	L .02	L .02	--	--	--
82-06-15	1100	1	L .02	L .02	L .02	L .02	L .02		--	--
82-08-09	1230	1	L .02	L .02	L .02	L .02	L .02		--	--
82-10-18	1130	1	L .02	L .02	L .02	L .02	L .02		--	--

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07NB0001
SLAVE RIVER AT FITZGERALD. ALBERTA

LAT. 59D 52M 9S LONG. 111D 35M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-03	1400	1	0	18. 0	--	213.	7 5	7. 9	--	9. 8
82-04-05	1445	1	. 0	20. 8	--	237.	--	7 8	--	14 0
82-05-07	1430	1	. 0	--	--	--	7 5	--	--	--
82-06-15	1140	1	17 0	23. 9	--	204	8. 0	7. 9	--	100 0
82-07-08	1530	1	22. 0	22. 9	--	219	--	8. 0	--	57. 0
82-07-26	1400	1	18 0	24. 8	--	263	--	7. 7	--	3600. 0
82-08-17	1445	1	17 0	21. 3	--	216	--	7. 9	--	270. 0
82-09-15	1430	1	10 0	21. 5	--	166	7. 6	8. 1	--	53. 0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-03-03	1400	1	40	35	--	--	--	--	--	--
82-04-05	1445	1	10	325	--	--	--	--	--	--
82-05-07	1430	1	--	10	--	--	--	--	--	--
82-06-15	1140	1	50	178.	--	--	--	--	--	--
82-07-08	1530	1	10	80	--	--	--	--		--
82-07-26	1400	1	60	5600	--			--		--
82-08-17	1445	1	10	960	--		--	--	--	--
82-09-15	1430	1	40	86		--	--		--	--

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-03	1400	1	0	0	109	89 0	29 50	6 9	102 1	5 2
82-04-05	1445	1	0	0	115	94 0	32 80	6 9	110 3	6 5
82-06-15	1140	1	0	0	104	85 0	28 30	6 4	97 0	5 9
82-07-08	1530	1	0	0	101	83 0	28 60	7 1	100 6	4 8
82-07-26	1400	1	0	0	128	105 0	35 60	7 2	118 5	8 7
82-08-17	1445	1	0	0	112	92 0	32 00	7 8	112 0	6 9
82-09-15	1430	1	0	0	84	69 0	24 20	5 4	82 7	4 0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-03	1400	1	. 7	4 8	. 08	15	4. 5	120		
82-04-05	1445	1	7	6 8	. 11	18	4 3	132	--	--
82-06-15	1140	1	1 1	3. 6	. 07	16	3 8	116	--	--
82-07-08	1530	1	. 9	4 0	. 11	17.	3 4	116	--	--
82-07-26	1400	1	1. 6	1. 9	. 13	24	4 2	146	--	--
82-08-17	1445	1	1 2	3 4	. 10	22	4. 8	133	--	--
82-09-15	1430	1	. 9	3. 8	. 06	11	3. 7	94	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-03	1400	1	. 050	. 006 03L	. 044	. 09 10L	--	. 19	. 13	. 32
82-04-05	1445	1	. 410	. 005 03L	. 400	. 09 10L	--	. 24	. 15	. 39
82-05-07	1430	1	. 025	L. 003 03L	. 023	. 06 10L	--	. 37	. 12	. 49
82-06-15	1140	1	. 210	. 010 03L	. 200	. 03 10L	--	. 23	. 35	. 58
82-07-08	1530	1	--	. 011 03L	--	. 05 10L	--	. 14	. 18	. 32
82-07-26	1400	1	3. 000	. 056 03L	2. 900	. 10 10L	--	. 33	7. 00	7. 30
82-08-17	1445	1	. 650	. 040 03L	. 610	. 06 10L	--	. 35	2. 00	2. 40
82-09-15	1430	1	. 087	. 006 03L	. 081	. 02 10L	--	. 14	. 24	. 38

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07NB0001
SLAVE RIVER AT FITZGERALD, ALBERTA

LAT 59D 52M 9S LONG 111D 35M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-03	1400	1	--	--	3.0	1.10	4.1	06	L 0005 041	L 0005 021
82-04-05	1445	1	--	--	3.1	3.00	6.1	07	L 0005 041	L 0005 021
82-05-07	1430	1	--	--	1.5	79	2.3	--	--	--
82-06-15	1140	1	--	--	6.7	3.60	10.3	08	L 0005 041	L 0005 021
82-07-08	1530	1	--	--	3.3	2.10	5.4	03	0005 041	L 0005 021
82-07-26	1400	1	--	--	7.8	84.00	91.8	09	L 0005 041	L 0005 021
82-08-17	1445	1	--	--	11.0	15.00	26.0	11	L 0005 041	L 0005 021
82-09-15	1430	1	--	--	4.1	2.20	6.3	05	L 0005 041	L 0005 021

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-03	1400	1			03		60			002
82-04-05	1445	1			09		2.40			008
82-05-07	1430	1			02		48			L 001
82-06-15	1140	1			08		1.30			012
82-07-08	1530	1			06		1.10			007
82-07-26	1400	1			2.50		33.00			002
82-08-17	1445	1			38		4.80			048
82-09-15	1430	1			05		93			004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-03-03	1400	1		L 002	L 002	002	004	L 001	06	018
82-04-05	1445	1		L 002	007	010	037	L 001	19	011
82-05-07	1430	1		L 002	L 002	005	015	L 001	L 05	L 004
82-06-15	1140	1		002	008	012	049	L 001	10	L 004
82-07-08	1530	1		L 002	L 002	005	004	L 001	07	L 004
82-07-26	1400	1		047	280	200		001	2.20	077
82-08-17	1445	1		010	049	037	097	L 001	41	015
82-09-15	1430	1		L 002	L 002	004	011	L 001	07	L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-DDE UG/L
82-03-03	1400	1	L 001			L 001	003	L 001	L 001	L 002
82-04-05	1445	1	001			L 001	002	L 001	L 001	L 002
82-05-07	1430	1	L 001			L 001	007	L 001	L 001	L 002
82-06-15	1140	1	007			L 001	002	L 001	L 001	L 002
82-07-08	1530	1	001			L 001	001	L 001	L 001	L 002
82-07-26	1400	1	001			L 001	003	L 001	L 001	L 002
82-08-17	1445	1	005			L 001	003	L 001	L 001	L 002
82-09-15	1430	1	003			L 001	007	L 001	L 001	L 002

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION 00AL07NB0001
SLAVE RIVER AT FITZGERALD, ALBERTA

LAT. 59D 52M 9S LONG. 111D 36M 8S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-03-03	1400	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-05	1445	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-07	1430	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-15	1140	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-08	1530	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-26	1400	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-17	1445	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-15	1430	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-03-03	1400	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .004
82-04-05	1445	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-05-07	1430	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-06-15	1140	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-08	1530	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-26	1400	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .004
82-08-17	1445	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .004
82-09-15	1430	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-03-03	1400	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-04-05	1445	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-05-07	1430	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-06-15	1140	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-07-08	1530	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-07-26	1400	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-08-17	1445	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-09-15	1430	1	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002

FOOTNOTE L LESS THAN DETECTION LIMIT — G GREATER THAN MEASUREMENT LIMIT
NOTE/ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION — G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07NB0003
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA LAT 59D 48M 50S LONG 111D 57M 43S

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-05-03	1355	1	8.0	20.6		25100.	8.4	8.3		1.9
82-05-07	0830	1	3.0	23.3		26900.	7.4	7.7		2.9
82-06-14	1350	1	12.0	23.8		41000	8.3	7.8		12.0
82-07-08	1000	1	24.0	23.0		51600	8.8	8.6		1.8
82-08-30	1345	1	17.0	19.7		47600	7.9	8.4		1.0
82-10-29	1400	1	0	15.8		84600		7.6		8

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP MF NO/DL	08101W OXYGEN DISSOLVED 00 02 MG/L
82-05-03	1355	1	60	7						
82-05-07	0830	1	100	6						
82-06-14	1350	1	40	22						
82-07-08	1000	1	30	6						
82-08-30	1345	1	10	6						
82-10-29	1400	1	10	47						

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-05-03	1355	1	0	0	117	96.0	321.00	29.9	924.[illegible]	6000.0
82-05-07	0830	1	0	0	128	105.0	349.00	34.[illegible]	1012.[illegible]	6200.0
82-06-14	1350	1	0	0	213	175.0	1120.00	63.0	3056.6	9500.0
82-07-08	1000	1	8	7.0	44	50.0	1270.00	70.0	3459.4	12500.0
82-08-30	1345	1	1	9	78	66.0	1030.00	70.0	2860.1	11700.0
82-10-29	1400	1	0	0	159	130.0	1200.00	86.0	3350.5	24500.0

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07NB0003 LAT. 59D 48M 50S LONG. 111D 57M 43S
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-05-03	1355	1	6.0	8500.0	.25	1020.	1.6	15936.	--	--
82-05-07	0830	1	6.4	9200.0	.20	1020.	3.8	16876.	--	--
82-06-14	1350	1	7.5	16000.0	.71	2520.	1.0	29317.	--	--
82-07-08	1000	1	6.7	19000.0	.71	2760.	3.6	35640.	--	--
82-08-30	1345	1	16.0	18000.0	.66	2730.	.6	33586.	--	--
82-10-29	1400	1	11.0	37000.0	.70	3000.	4.2	65879.	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-05-03	1355	1	.038	.023 031	.015	.01 101	--	.74	.12	.86
82-05-07	0830	1	.036	.023 031	.013	.01 101	--	.87	.09	.96
82-06-14	1350	1	.160	.019 031	.140	L.01 101	--	.39	.39	.78
82-07-08	1000	1	.052	.015 031	.037	.28 101	--	--	.15	--
82-08-30	1345	1	.019	.019 031	L.006	.01 101	--	--	.04	--
82-10-29	1400	1	.018	.016 031	L.006	L.01 101	--	.32	L.01	.32

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-05-03	1355	1	--		9.6	.73	10.3	.58	L.0005 041	L.0005 021
82-05-07	0830	1	--		11.0	.58	11.6	.36	L.0005 041	L.0005 021
82-06-14	1350	1	--	--	7.2	2.50	9.7	.71	.0005 041	L.0005 021
82-07-08	1000	1		--	5.7	.95	6.7	.84	.0005 041	L.0005 021
82-08-30	1345	1	--	--	3.2	.31	3.5	.66	L.0005 041	L.0005 021
82-10-29	1400	1	--	--	5.5	.24	5.7	1.20	L.0005 041	L.0005 021

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL07NB0003
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA LAT. 59D 48M 50S LONG. 111D 57M 43S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-05-03	1355	1	--	--	.07	--	.42	--	--	L.001
82-05-07	0830	1	--	--	.07	--	.44	--	--	L.001
82-06-14	1350	1	--	--	.14	--	.97	--	--	L.001
82-07-08	1000	1	--	--	.05	--	.36	--	--	.002
82-08-30	1345	1	--	--	.05	--	.23	--	--	L.001
82-10-29	1400	1	--	--	.11	--	.44	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-05-03	1355	1	--	L.002	L.002	.002	.003	L.001	--	L.004
82-05-07	0830	1	--	L.002	L.002	.001	.002	L.001	--	L.004
82-06-14	1350	1	--	L.002	L.002	.002	.001	L.001	--	L.004
82-07-08	1000	1	--	L.002	L.002	.001	.004	L.001	--	L.004
82-08-30	1345	1	--	L.002	L.002	L.001	.008	L.001	.14	L.004
82-10-29	1400	1	--	L.002	L.002	L.001	.002	L.001	.18	L.004

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTE/ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL11AA0001 NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA — LAT 49D 1M 18S LONG 112D 58M 18S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-27	0830	3	1.0	19.8	438.	440	8.0	7.7	--	2.4
82-03-24	0815	3	1.0	21.3	445	453	8.0	7.9	-	4.5
82-04-28	0800	3	6.0	20.8	400	390	8.2	8.1	20.0	10.0
82-05-26	1215	3	8.0	21.5	172	152	8.3	8.1	37.0	22.0
82-06-23	0800	3	15.0	22.4	157	141	8.2	8.1	20.0	10.0
82-07-21	0800	3	15.0	24.0	137	120	7.8	8.1	21.0	14.0
82-08-10	1235	3	20.0	21.1	379	344	8.1	8.5	-	1.2
82-09-21	1245	3	13.0	21.1	415	379	8.5	8.4	--	.7
82-10-21	0800	3	7.0	17.9	427	394	8.4	8.3		1.1
82-11-19	0800	3	0	18.3	461	426	8.1	8.1	3.6	2.6
82-12-15	0830	3	.5	8.2	455	417	7.9	7.7	2.4	1.6

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-27	0830	3	5	1		.002		2		8.7
82-03-24	0815	3	30	2		.001	86	36		9.7
82-04-28	0800	3	30	20		.002		30		9.7
82-05-26	1215	3	10	50		.006	80	52		10.4
82-06-23	0800	3	5	33		.004		740		8.7
82-07-21	0800	3	5	15		.003	310	240		8.6
82-08-10	1235	3	10	1		.001		63		8.4
82-09-21	1245	3	10	1		.003	96	64		10.0
82-10-21	0800	3	5	1		.002	105	85		10.5
82-11-19	0800	3	5	2		L.001	20	12		11.8
82-12-15	0830	3	15	8		.002	12	12		10.2

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-27	0830	3	0	0	287	235.0	51.00	24.1	226.6	8.3
82-03-24	0815	3	0	0	293	240.0	53.20	22.9	227.1	11.6
82-04-28	0800	3	0	0	256	210.0	47.00	18.6	193.9	15.0
82-05-26	1215	3	0	0	98	80.0	22.40	7.9	88.5	[illegible]
82-06-23	0800	3	0	0	90	74.0	20.20	6.4	76.8	1.2
82-07-21	0800	3	0	0	78	64.0	17.80	6.1	69.6	1.6
82-08-10	1235	3	5	4.4	227	195.0	39.10	20.9	183.7	9.7
82-09-21	1245	3	6	5.2	262	225.0	44.80	22.5	208.6	11.0
82-10-21	0800	3	0	0	287	235.0	44.20	23.6	207.5	9.5
82-11-19	0800	3	0	0	305	250.0	42.30	25.0	208.6	11.0
82-12-15	0830	3	0	0	299	245.0	44.00	24.3	209.9	8.3

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-27	0830	3	1.2	.9	.20	6	12.0	245	--	
82-03-24	0815	3	4.0	2.0	.18	8	12.0	259	--	
82-04-28	0800	3	3.3	1.7	.18	8	10.0	230		
82-05-26	1215	3	.5	.3	L.05	6	3.2	90		
82-06-23	0800	3	.2	.3	L.05	5	2.8	81		
82-07-21	0800	3	.1	.2	L.05	3	2.6	69		
82-08-10	1235	3	1.1	.9	.15	5	7.9	202		
82-09-21	1245	3	1.5	1.1	.15	6	8.6	232		
82-10-21	0800	3	1.4	1.1	.15	7	11.0	238		
82-11-19	0800	3	1.5	1.1	.16	7	11.0	249		
82-12-15	0830	3	1.3	1.1	.13	6	12.0	244		

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL11AA0001 LAT. 49D 1M 18S LONG 112D 58M 18S
NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-27	0830	3	006	L 003	L 006	47	59	59	L 01	59
82-03-24	0815	3	047	038	009	84	1 10	93	07	1 00
82-04-28	0800	3	058	020	038	44	67	54	14	68
82-05-26	1215	3	042	L 003	040	07	12	12	11	23
82-06-23	0800	3	021	003	018	13	17	11	09	20
82-07-21	0800	3	019	L 003	018	08	10	09	08	17
82-08-10	1235	3	010	005	L 006	09	19	18	03	21
82-09-21	1245	3	L 003	L 003	L 006	10	20	21	L 01	21
82-10-21	0800	3	006	003	L 006	16	24	24	L 01	24
82-11-19	0800	3	003	L 003	L 006	38	47	48	L 01	48
82-12-15	0830	3	006	004	L 006	45	57	57	L 01	57

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-27	0830	3	L 1		2 0	17	2 2	07 05D	L 0005	L 0005
82-03-24	0815	3	1		4 4	38	4 8	38 05D	0010	L 0005
82-04-28	0800	3	L 1		5 2	88	6 1	10 05D	0012	L 0005
82-05-26	1215	3	L 1		1 5	1 00	2 5	03 05D	L 0005	L 0005
82-06-23	0800	3	L 1		1 8	77	2 4	05 05D	L 0005	L 0005
82-07-21	0800	3	L 1		9	59	1 5	L 02 05D	L 0005	L 0005
82-08-10	1235	3	L 1		2 2	16	2 6	06 05D	0008	L 0005
82-09-21	1245	3	L 1		2 1	05	2 4	05 05D	0006	L 0005
82-10-21	0800	3	L 1		2 1	18	2 3	06 05D	0007	L 0005
82-11-19	0800	3	L 1	--	1 8	21	1 8	07 05D	0005	L 0005
82-12-15	0830	3	L 1	--	1 4	20	1 6	13 05D	L 0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE MN MG/L	25104L MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE FE MG/L	26104L IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-27	0830	3				L 01		04	L 02	
82-03-24	0815	3				01		06	L 02	
82-04-28	0800	3				01		09	L 02	
82-05-26	1215	3				L 01		L 04	L 02	
82-06-23	0800	3				L 01		L 04	L 02	
82-07-21	0800	3				L 01		L 04	L 02	
82-08-10	1235	3				L 01		L 04	L 02	
82-09-21	1245	3				L 01		L 04	L 02	
82-10-21	0800	3				L 01		L 04	L 02	
82-11-19	0800	3				L 01		L 04	L 02	
82-12-15	0830	3				L 01		L 04	L 02	

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTE/ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

STATION 00AL11AA0002 LAT. 49D 5M 22S LONG. 112D 24M 6S
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-23	1200	3	2.0	20.4	513.	510	8.0	7.9	--	3.5
82-04-27	1215	3	9.0	21.8	345.	337	8.3	8.2	60.0	42.0
82-05-26	1100	3	9.5	21.2	434	393	8.6	8.4	12.0	4.7
82-06-22	1145	3	21.0	24.0	462.	439	8.4	8.5	2.5	1.4
82-07-20	1130	3	20.0	23.5	506.	476.	8.5	8.5	7.0	5.5
82-08-10	1130	3	19.0	20.9	659.	611.	8.4	8.5	--	3.7
82-09-21	1115	3	12.0	21.1	943.	--	8.6	8.4	-	4.3
82-10-20	1130	3	2.0	14.0	609.	567	8.5	8.4	--	6.0
82-11-16	1115	3	1.0	12.6	833.	781	8.3	8.1	4.5	2.6
82-12-14	1200	3	.5	10.0	824	742.	8.0	7.9	3.2	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-03-23	1200	3	80	2	--	.001	4	2	-	10.1
82-04-27	1215	3	30	90	--	L.001	-	10	--	10.1
82-05-26	1100	3	20.	9.	--	.003	86	63	--	9.5
82-06-22	1145	3	10	2	--	.001	G80	G80	--	7.9
82-07-20	1130	3	10.	6		.002	--	202	--	8.1
82-08-10	1130	3	20.	4.		L.001	--	282	--	8.4
82-09-21	1115	3	5	5.	--	.003	-	25	--	9.5
82-10-20	1130	3	10	8	--	.001	120	59	--	11.5
82-11-16	1115	3	10	3		.001	7	2	--	12.6
82-12-14	1200	3	10.	13	--	.001	2	2	--	11.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-23	1200	3	0	0	268	220.0	49.90	21.8	214.4	30.0
82-04-27	1215	3	0	0	183	150.0	36.40	15.3	153.9	15.0
82-05-26	1100	3	0.	2	237.	195.0	46.80	19.1	195.5	24.0
82-06-22	1145	3	7.	5.7	236	205.0	43.40	20.1	191.1	24.0
82-07-20	1130	3	7	5.5	224	195.0	37.00	25.6	197.8	37.0
82-08-10	1130	3	4	3.4	217	185.0	35.10	26.5	196.8	62.0
82-09-21	1115	3	4	3.5	260.	220.0	45.70	36.5	264.4	113.0
82-10-20	1130	3	1	1.0	260	215.0	41.20	28.0	218.2	60.0
82-11-16	1115	3	0	0	366	300.0	40.90	38.2	259.4	70.0
82-12-14	1200	3	0	0	402	330.0	56.50	38.0	282.5	61.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-23	1200	3	6.0	4.3	.14	48	12.0	304	-	-
82-04-27	1215	3	2.8	2.2	.13	28	7.8	198	--	--
82-05-26	1100	3	1.7	1.9	.13	28	5.8	244.	--	--
82-06-22	1145	3	1.6	1.9	.12	38	7.6	260	--	-
82-07-20	1130	3	1.8	3.0	.15	62.	5.8	289	-	-
82-08-10	1130	3	2.7	5.9	.19	136	5.2	384	-	-
82-09-21	1115	3	4.0	10.0	.20	260	4.0	605	-	--
82-10-20	1130	3	2.0	4.7	.14	107	3.2	375	-	--
82-11-16	1115	3	2.3	6.5	.20	141	7.2	486	-	--
82-12-14	1200	3	2.0	5.2	.15	118	7.0	480.	--	-

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL11AA0002 LAT 49D 5M 22S LONG 112D 24M 6S
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-23	1200	3	047	035	012	17	68	67	06	73
82-04-27	1215	3	093	019	074	08	34	35	27	62
82-05-26	1100	3	022	008	014	01	20	21	07	28
82-06-22	1145	3	006	003	L 006	L 01	23	22	L 01	22
82-07-20	1130	3	016	003	013	01	24	23	04	27
82-08-10	1130	3	011	L 003	009	01	27	26	05	31
82-09-21	1115	3	010	L 003	008	01	29	30	06	36
82-10-20	1130	3	013	005	008	L 01	17	17	L 01	17
82-11-16	1115	3	005	004	L 006	13	33	35	L 01	35
82-12-14	1200	3	007	003	L 006	19	33	34	L 01	34

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-23	1200	3	L 1		12 0	34	12 3	20 05D	0012	L 0005
82-04-27	1215	3	L 1		6 2	21	6 4	09 05D	0012	L 0005
82-05-26	1100	3	L 1		5 0	52	5 5	07 05D	0009	L 0005
82-06-22	1145	3	L 1		5 6	21	5 8	08 05D	0010	L 0005
82-07-20	1130	3	L 1		4 0	30	4 3	07 05D	0010	L 0005
82-08-10	1130	3	L 1		5 2	26	5 5	09 05D	0010	L 0005
82-09-21	1115	3	L 1		5 3	35	5 7	09 05D	0006	L 0005
82-10-20	1130	3	L 1		3 7	34	4 0	07 05D	0008	0005
82-11-16	1115	3	L 1		4 2	28	4 5	09 05D	0007	0008
82-12-14	1200	3	L 1		3 5	15	3 7	13 05D	0005	0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-23	1200	3				L 01		11	L 02	-
82-04-27	1215	3				02		06	L 02	-
82-05-26	1100	3				L 01		05	L 02	-
82-06-22	1145	3				L 01	-	L 04	L 02	-
82-07-20	1130	3				L 01		L 04	L 02	
82-08-10	1130	3				L 01	-	L 04	L 02	-
82-09-21	1115	3				01	-	L 04	L 02	-
82-10-20	1130	3				L 01		L 04	L 02	-
82-11-16	1115	3				L 01		L 04	L 02	
82-12-14	1200	3				L 01		L 04	L 02	

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
ALBERTA

STATION - 00AL11AA0003 LAT. 49D 7M 27S LONG. 110D 53M 39S
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-26	0900	3	2.0	19.1	1234.	1200.	7.7	7.6	--	1.8
82-03-23	0900	3	2.0	20.4	550.	546.	8.2	8.1	--	85.0
82-04-27	0845	3	9.0	21.5	319.	312.	8.0	8.0	G200.0	340.0
82-05-26	0745	3	12.5	22.4	297.	281.	8.4	8.3	G200.0	165.0
82-06-22	0830	3	21.0	24.0	348.	322.	8.2	8.3	94.0	60.0
82-07-20	0845	3	19.5	22.5	211.	202.	8.0	8.2	120.0	82.0
82-08-10	0815	3	15.0	21.3	544.	507.	8.3	8.5	--	5.5
82-09-21	0830	3	9.0	21.2	915.	850.	8.7	8.5	--	1.5
82-10-20	0830	3	1.0	13.9	765.	707.	8.6	8.4	--	35.0
82-11-16	0830	3	1.0	12.6	1149.	1110.	8.2	8.0	3.8	2.1
82-12-14	0900	3	.5	8.9	1166.	1070.	8.0	7.9	4.0	2.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-26	0900	3	20	11	--	L 001	11.	11	--	4.8
82-03-23	0900	3	60	225	--	L 001	--	22	--	12.7
82-04-27	0845	3	60	1305	--	L 001	--	--	--	9.3
82-05-26	0745	3	10	343	--	010	--	130	--	8.5
82-06-22	0830	3	10	173	--	010	--	200	--	7.5
82-07-20	0845	3	10	222		001	--	60	--	7.6
82-08-10	0815	3	20	8		004	--	360	--	8.5
82-09-21	0830	3	10	5	--	003	70.	52	--	10.2
82-10-20	0830	3	5	52		003	--	23	--	11.8
82-11-16	0830	3	10	2	--	001	10	10.		11.3
82-12-14	0900	3	10	22	--	L 001	600	12		11.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-26	0900	3	0	0	445	365.0	76.00	45.0	375.0	120.0
82-03-23	0900	3	0	0	219	180.0	39.10	21.3	185.3	48.0
82-04-27	0845	3	0	0	159	130.0	29.40	14.3	132.3	19.0
82-05-26	0745	3	0	0	152	125.0	27.50	12.9	121.8	17.0
82-06-22	0830	3	0	0	165	135.0	31.50	13.5	134.2	19.0
82-07-20	0845	3	0	0	110	90.0	21.50	9.1	91.2	9.9
82-08-10	0815	3	5	4.0	216	185.0	43.60	18.6	185.5	44.0
82-09-21	0830	3	9	7.7	292	255.0	43.60	31.0	236.5	124.0
82-10-20	0830	3	4	3.0	291	245.0	41.40	28.5	220.7	105.0
82-11-16	0830	3	0	0	463	380.0	36.30	45.2	276.7	155.0
82-12-14	0900	3	0	0	512	420.0	48.50	47.5	316.7	146.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-26	0900	3	3.4	10.0	17	320	8.8	802	--	002
82-03-23	0900	3	6.1	5.3	14	100	8.6	336.	--	011
82-04-27	0845	3	4.5	2.3	15	38	5.5	191	--	004
82-05-26	0745	3	1.8	1.1	08	24	4.2	164	--	002
82-06-22	0830	3	1.7	1.3	15	34	4.6	187.	--	002
82-07-20	0845	3	.9	.6	09	15	3.0	114	--	002
82-08-10	0815	3	1.8	3.0	11	89.	3.5	315.	--	002
82-09-21	0830	3	3.5	7.2	21	224	3.8	590	--	004
82-10-20	0830	3	2.5	6.0	14	161.	3.7	495.	--	001
82-11-16	0830	3	3.6	9.4	22	204	6.7	688.	--	001
82-12-14	0900	3	3.3	8.9	17	236	7.4	750	--	004

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STATION - 00AL11AA0003
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA
LAT. 49D 7M 27S LONG. 110D 53M 39S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-26	0900	3	.011	.007	L.006	.07	.50	.50	L.01	.50
82-03-23	0900	3	.220	.046	.170	.70	1.40	1.30	.53	1.80
82-04-27	0845	3	.500	.020	.480	.23	.57	.47	2.10	2.60
82-05-26	0745	3	.370	.009	.360	.04	.15	.14	.54	.68
82-06-22	0830	3	.150	.003	.150	.03	.15	.13	.29	.42
82-07-20	0845	3	.190	.003	.190	.08	.14	.13	.32	.45
82-08-10	0815	3	.018	L.003	.016	.05	.15	.13	.05	.18
82-09-21	0830	3	.004	L.003	L.006	.01	.15	.14	L.01	.14
82-10-20	0830	3	.042	.007	.035	.02	.15	.14	.10	.24
82-11-16	0830	3	.008	.003	L.006	.05	.23	.23	L.01	.23
82-12-14	0900	3	.009	.005	L.006	.45	.61	.58	L.01	.58

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-26	0900	3	L 1	--	5 1	.14	5.2	.14 05D	L.0005	L.0005
82-03-23	0900	3	L 1	--	11 0	3 40	14 4	.24 05D	.0008	.0011
82-04-27	0845	3	L 1	--	7 9	15.80	23 7	.12 05D	.0009	L.0005
82-05-26	0745	3	L 1	--	2 7	4 90	7.6	.05 05D	.0005	L.0005
82-06-22	0830	3	L 1	--	3 0	2 40	5 4	.06 05D	.0007	L.0005
82-07-20	0845	3	L 1	--	1 4	2 70	4 1	.03 05D	L.0005	L.0005
82-08-10	0815	3	L 1		2 6	.30	2 9	.10 05D	.0005	L.0005
82-09-21	0830	3	L 1		3 4	.11	3 5	.15 05D	.0005	L.0005
82-10-20	0830	3	L 1		3 0	.93	3.9	.11 05D	L.0005	L.0005
82-11-16	0830	3	L 1	--	4 1	.21	4.3	.16 05D	L.0005	.0005
82-12-14	0900	3	L 1	-	4 1	.20	4 3	.23 05D	L.0005	.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-26	0900	3	-			.85	-	.04	L.02	L.001
82-03-23	0900	3				L.01	--	.06	L.02	.011
82-04-27	0845	3				L.01		.07	.03	.051
82-05-26	0745	3	-			L.01	-	L.04	L.02	.018
82-06-22	0830	3				L.01	--	L.04	L.02	.012
82-07-20	0845	3	--	-		L.01	-	L.04	L.02	.013
82-08-10	0815	3	-			L.01	--	L.04	.04	.001
82-09-21	0830	3	-			L.01	-	L.04	L.02	L.001
82-10-20	0830	3	-			L.01	-	L.04	L.02	.005
82-11-16	0830	3	-	-	-	.01	-	L.04	L.02	L.001
82-12-14	0900	3	-			.01	--	L.04	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-26	0900	3	--	L.002	.002	L.001	.006	.001	.16	L.004
82-03-23	0900	3	--	L.002	.007	.010	.020	L.001	.25	L.004
82-04-27	0845	3	-	.013	.037	.032	.059	.004	.52	.015
82-05-26	0745	3	-	.003	.006	.009	.026	L.001	.21	.004
82-06-22	0830	3	-	.004	.008	.010	.027	L.001	.18	.004
82-07-20	0845	3	-	.003	.008	.008	.028	L.001	.17	L.004
82-08-10	0815	3	--	L.002	.002	.002	.008	L.001	.18	L.004
82-09-21	0830	3	--	L.002	L.002	L.001	.002	L.001	.20	L.004
82-10-20	0830	3	--	L.002	.002	.003	.005	L.001	.11	L.004
82-11-16	0830	3	--	L.002	.002	L.001	L.001	L.001	.23	L.004
82-12-14	0900	3	--	L.002	.002	.001	L.001	L.001	.21	L.004

DETAILED WATER QUALITY DATA 1982
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STATION 00AL11AA0003 LAT. 49D 7M 27S LONG 110D 53M 39S
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-26	0900	3	L.001	--	--	L .001	L .001	L .001	L .001	L .002
82-03-23	0900	3	.004	--	--	L .001	.006	L .001	L .001	L .002
82-04-27	0845	3	.002	--	--	L .001	.007	L .001	L .001	L .002
82-05-26	0745	3	.001	--	--	L .001	.004	L .001	L .001	L .002
82-06-22	0830	3	.003	--	--	L .001	.002	L .001	L .001	L .002
82-07-20	0845	3	.002	--	--	L .001	.001	L .001	L .001	L .002
82-08-10	0815	3	.002	--	--	L .001	.008	.001	L .001	L .002
82-09-21	0830	3	.002	--	--	L .001	.006	L .001	L .001	L .002
82-10-20	0830	3	.001	--	--	L .001	.005	L .001	L .001	L .002
82-11-16	0830	3	.001	--	--	L .001	.003	L .001	L .001	L .002
82-12-14	0900	3	.001	--	--	L .001	.001	L .001	L .001	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-26	0900	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-03-23	0900	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-27	0845	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-26	0745	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-22	0830	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-20	0845	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-10	0815	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-21	0830	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-20	0830	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-16	0830	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-12-14	0900	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-26	0900	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-03-23	0900	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-04-27	0845	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-05-26	0745	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-06-22	0830	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-20	0845	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-08-10	0815	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-09-21	0830	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-10-20	0830	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-11-16	0830	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-12-14	0900	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-26	0900	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-03-23	0900	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-04-27	0845	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-05-26	0745	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-06-22	0830	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-07-20	0845	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-08-10	0815	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-09-21	0830	3	L .004	L .002	L .004	2	L .002	L .002	L .005	L .002
82-10-20	0830	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-11-16	0830	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-12-14	0900	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002

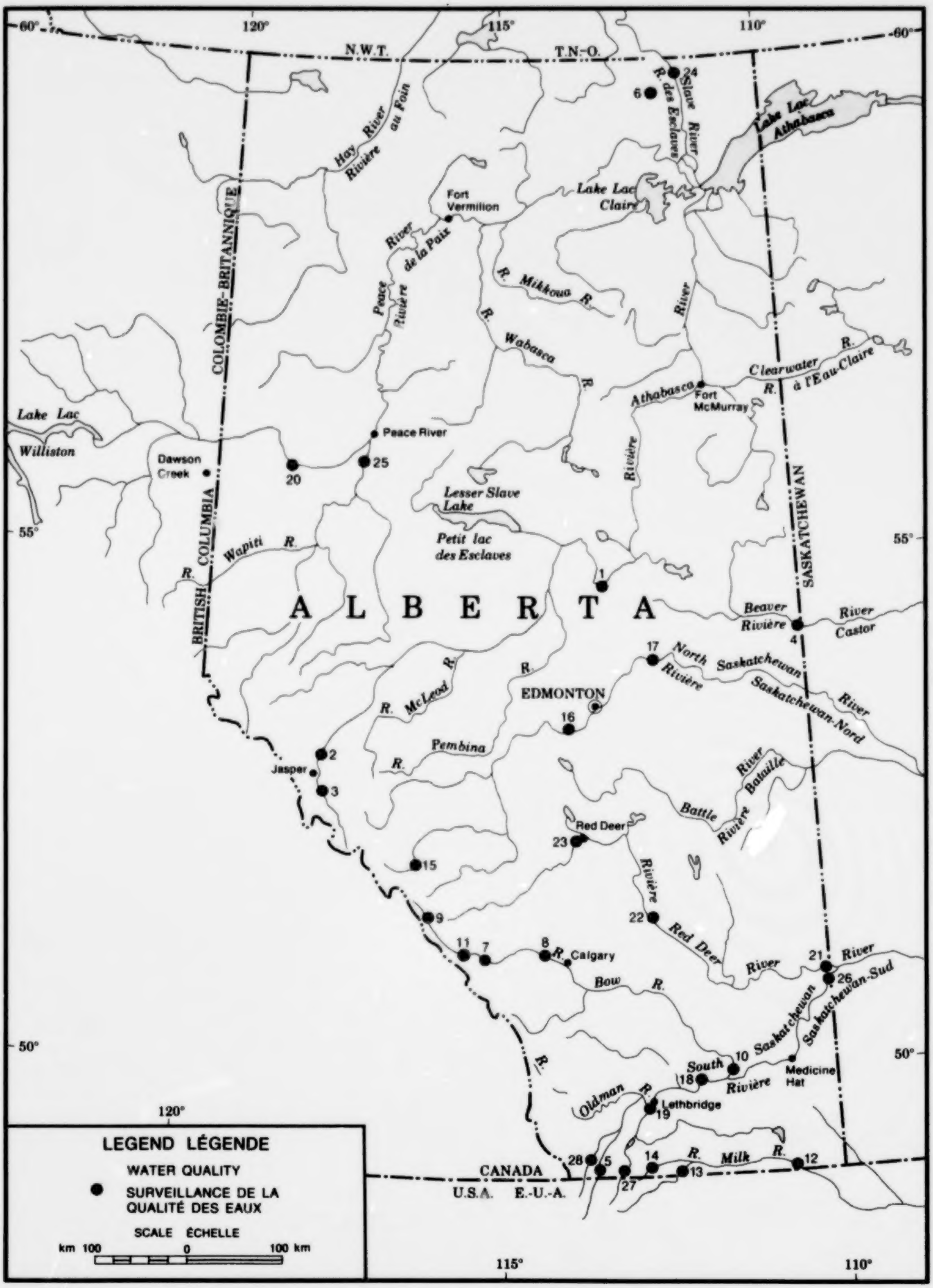
FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

Alphabetical Station Index
Index alphabétique des stations

Location Description	Station Number Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
ATHABASCA RIVER AT ATHABASCA, ALBERTA	00AL07BE0001 97900S001	54	43	21	113	17	9	66	1
ATHABASCA RIVER AT HWY 16 BRIDGE BELOW CONFLUENCE WITH SNARING RIVER, JASPER NATIONAL PARK, ALBERTA	00AL07AA0023	53	2	30	118	5	15	63	2
ATHABASCA RIVER AT HWY 93A, ATHABASCA FALLS, JASPER NATIONAL PARK, ALBERTA	00AL07AA0015	52	39	54	117	52	51	61	3
BEAVER RIVER AT BEAVER CROSSING, ALBERTA	00AL06AD0001 97900S006	54	21		110	13		58	4
BELLY RIVER AT HWY 6, WATERTON LAKES NATIONAL PARK, ALBERTA	00AL05AD0060	49	3	6	113	41	6	10	5
BENCH MARK CREEK NEAR FORT SMITH, ALBERTA	00AL07NB0003 97900S006	59	48	50	111	57	45	79	6
BOW RIVER ABOUT 4.5 KM ABOVE CANMORE BELOW SE BOUNDARY OF BANFF NAT'L PARK ALBERTA	00AL05BE0013	51	7	21	115	23	12	26	7
BOW RIVER AT COCHRANE, ALBERTA	00AL05BH0017	51	10	25	114	28	0	29	8
BOW RIVER AT HIGHWAY 1 ABOVE LAKE LOUISE ALBERTA	00AL05BA0011 97900S005	51	26	36	116	12	42	22	9
BOW RIVER NEAR MOUTH, ALBERTA	00AL05BN0001 97900S012	50	2	48	111	35	27	33	10
BREWSTER CREEK AT HWY 1 NEAR MOUTH BANFF NATIONAL PARK, ALBERTA	00AL05BB0009	51	9	42	115	40	15	24	11
MILK RIVER NEAR EASTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA	00AL11AA0003 97900S031	49	7	27	110	53	39	86	12
MILK RIVER NEAR WESTERN CROSSING OF INTERNATIONAL BOUNDARY, ALBERTA	00AL11AA0002 97900S025	49	5	24	112	24	6	84	13
NORTH MILK RIVER NEAR THE INTERNATIONAL BOUNDARY, ALBERTA	00AL11AA0001 97900S001	49	1	18	112	58	18	82	14
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT, ALBERTA	00AL05DA0001 97900S009	52	0	9	116	28	21	48	15
NORTH SASKATCHEWAN RIVER AT DEVON, ALBERTA	00AL05DF0008	53	22	9	113	45	6	50	16

Location Description	Station Number / Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
NORTH SASKATCHEWAN RIVER AT FAKAN ALBERTA	00AL05EC0005	54	0	9	112	[illegible]	54	[illegible]	[illegible]
OLDMAN RIVER AT HWY 36 NORTH OF TABER ALBERTA	00AL05AG0001	49	57	40	112	5	5	[illegible]	[illegible]
OLDMAN RIVER NEAR LETHBRIDGE, ALBERTA	00AL05AD0002 979005007	49	42	30	112	52	30	[illegible]	[illegible]
PEACE RIVER AT HWY [illegible] DUNVEGAN ALBERTA	00AL07FD0002 979005003	55	55	18	118	36	33	[illegible]	[illegible]
RED DEER RIVER AT BINDLOSS, ALBERTA	00AL05CK0001 979005004	50	54	9	110	17	[illegible]	[illegible]	[illegible]
RED DEER RIVER AT DRUMHELLER, ALBERTA	00AL05CE0001 979005001	51	28	9	112	42	[illegible]	[illegible]	[illegible]
RED DEER RIVER AT HWY [illegible] ABOVE RED DEER, ALBERTA	00AL05CC0004	52	16	[illegible]	113	51	35	[illegible]	[illegible]
SLAVE RIVER AT FITZGERALD, ALBERTA	00AL07NB0001 979005001	59	52	9	111	35	9	[illegible]	[illegible]
SMOKY RIVER AT WATINO, ALBERTA	00AL07GJ0001 979005002	55	42	57	117	[illegible]	16	[illegible]	[illegible]
SOUTH SASKATCHEWAN RIVER AT HWY 41 ALBERTA	00AL05AK0001 979005001	50	44	35	110	[illegible]	45	[illegible]	[illegible]
ST. MARY RIVER NEAR INTERNATIONAL BOUNDARY (FORMERLY NEAR KIMBALL) ALBERTA	00AL05AE0001 979005027	49	0	9	113	13	[illegible]	[illegible]	27
WATERTON RIVER AT HWY 6 BRIDGE NEAR WATERTON LAKES NATIONAL PARK, ALBERTA	00AL05AD0005 979005003	49	6	51	113	50	21	7	28

Station Location Map
Carte des stations



WATER QUALITY BRANCH MONITORING STATIONS 1982
STATIONS DE SURVEILLANCE DE LA DIRECTION DE LA QUALITÉ DES EAUX 1982

MANITOBA

Detailed Data / Données détaillées

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA04AB0001
HAYES RIVER BELOW JUNCTION WITH GODS RIVER, MANITOBA LAT 56D 25M 54S LONG. 92D 47M 17S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-23	1200	1	0	21.6	--	194	--	7.5	--	8.0
82-06-08	1325	1	6.0	24.5	135.	129	7.8	7.7	--	2.0
82-07-27	1115	1	16.0	23.4	170.	173	8.3	7.6	--	1.4
82-09-20	1115	1	8.0	21.2	160	167.	7.7	7.9	--	5.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-03-23	1200	1	20	71.	--	--	--	--	--	--
82-06-08	1325	1	30.	4.	--	--	--	--	--	--
82-07-27	1115	1	30	3	--	--	--	--	--	--
82-09-20	1115	1	20	16.	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-23	1200	1	0	.0	118	97.0	30.90	5.8	101.0	2.5
82-06-08	1325	1	0	0	83	68.0	22.30	3.8	71.3	1.6
82-07-27	1115	1	0	0	105	86.0	27.90	5.1	90.7	2.0
82-09-20	1115	1	0	0	110	90.0	29.70	5.5	96.8	1.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-23	1200	1	8	2.0	08	2	3.2	106	--	--
82-06-08	1325	1	3	1.2	L 05	2	1.6	73	--	--
82-07-27	1115	1	4	1.4	07	2	2.3	93	--	--
82-09-20	1115	1	5	1.6	L 05	3	2.5	98	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-23	1200	1	--	.007 03L	--	.15 101	--	.46	.31	.77
82-06-08	1325	1	.010	--	--	--	--	--	--	--
82-07-27	1115	1	.017	.003 03L	.014	L.01 101	--	.24	L.01	.24
82-09-20	1115	1	.019	L.003 03L	.017	.01 101	--	.25	.10	.35

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-23	1200	1	--	--	8.1	2.50	10.6	.07	L.0005 04L	L.0005 02L
82-06-08	1325	1	--	--	--	--	--	.05	L.0005 04L	L.0005 02L
82-07-27	1115	1	--	--	7.9	.37	8.3	.05	L.0005 04L	L.0005 02L
82-09-20	1115	1	--	--	8.4	1.30	9.7	.05	L.0005 04L	L.0005 02L

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA04AB0001 LAT 56D 25M 54S LONG 92D 47M 17S
HAYES RIVER BELOW JUNCTION WITH GODS RIVER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-23	1200	1	--	--	.14	--	.65	--	--	.001
82-06-08	1325	1	--	--	.01	--	.24	--	--	L .001
82-07-27	1115	1	--	--	.03	--	.17	--	--	L .001
82-09-20	1115	1	--	--	.07	--	.48	--	--	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-03-23	1200	1	--	L .002	L .002	.003	.008	L .001	L .05	L .004
82-06-08	1325	1	--	L .002	L .002	.002	.008	.002	L .05	L .004
82-07-27	1115	1	--	L .002	L .002	L .001	.004	L .001	L .05	L .004
82-09-20	1115	1	--	L .002	--	--	--	L .001	L .05	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-06-08	1325	1	--	--	--	L .001	.003	L .001	L .001	L .002
82-07-27	1115	1	--	--	--	L .001	.001	L .001	L .001	L .002
82-09-20	1115	1	--	--	--	L .001	.007	L .001	L .001	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-06-08	1325	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-27	1115	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-20	1115	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-06-08	1325	1	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-07-27	1115	1	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-09-20	1115	1	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-06-08	1325	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-07-27	1115	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-09-20	1115	1	L .004	L .002	L .004	.2	L .002	L .002	L .005	L .002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00MA05KH0001
SASKATCHEWAN RIVER ABOVE CARROT RIVER. MANITOBA

LAT. 53D 50M 30S LONG. 101D 20M 3S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-26	1515	462	.0	19.3	476	470	8.0	7.8	--	8.2
82-02-23	1430	462	.0	11.7	437	429	8.1	7.7	--	5.3
82-03-23	1330	462	.0	22.0	425.	437.	7.8	7.9	--	3.9
82-05-26	1420	462	17.0	21.0	288.	281	8.4	8.4	--	16.0
82-06-15	1615	462	17.5	20.7	283	282	8.1	8.1	--	31.0
82-07-13	1500	462	20.0	17.9	385	381.	7.8	8.1	--	64.0
82-11-23	1430	462	.0	14.5	395	397	8.1	8.0	-	8.1
82-12-08	1500	462	.5	17.2	379.	387	8.0	7.7	7.8	4.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-26	1515	462	40.	16	12	.004	6.	L2.	--	12.9
82-02-23	1430	462	30	12	11	.001	4.	2.	--	11.8
82-03-23	1330	462	10.	10.	8.	.001	L2.	L2.	--	14.2
82-05-26	1420	462	20.	50	44	.020	4.	2	--	11.4
82-06-15	1615	462	30	66.	60	.020	--	--	--	9.2
82-07-13	1500	462	20	175	158	.010	-	8	--	7.2
82-11-23	1430	462	10	11	10	.004	12	12	--	13.8
82-12-08	1500	462	10	11.	9	.001	--	--	--	13.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-26	1515	462	0	.0	213	175.0	51.70	18.5	205.3	22.0
82-02-23	1430	462	0	.0	201	165.0	52.70	17.1	202.0	15.0
82-03-23	1330	462	0	0	195	160.0	50.20	13.1	179.3	18.0
82-05-26	1420	462	0	2	128.	105.0	33.90	11.8	133.2	12.0
82-06-15	1615	462	0	0	134	110.0	33.10	10.6	126.3	13.0
82-07-13	1500	462	0	0	152	125.0	39.10	13.2	152.0	16.0
82-11-23	1430	462	0	0	195	160.0	49.50	17.2	194.4	17.0
82-12-08	1500	462	0	0	183	150.0	44.50	15.8	176.2	17.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-26	1515	462	2.2	8.4	.20	60	16.0	284	-	.003
82-02-23	1430	462	1.9	7.4	.15	58	3.6	255	--	.001
82-03-23	1330	462	2.1	6.8	.18	56	3.8	246	--	.004
82-05-26	1420	462	1.9	6.6	.11	34.	.4	164	--	.001
82-06-15	1615	462	2.2	5.7	.11	36	1.2	168	--	.001
82-07-13	1500	462	3.0	6.4	.14	48	2.0	203	-	.002
82-11-23	1430	462	2.5	7.1	.21	59	.8	249	--	.003
82-12-08	1500	462	2.3	6.9	.14	52.	.8	229	-	L.001

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05KH0001 LAT. 53D 50M 30S LONG. 101D 20M 3S
SASKATCHEWAN RIVER ABOVE CARROT RIVER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-26	1515	462	.043	.016	.027	.23	.49	.49	.07	.56
82-02-23	1430	462	.010	.005	.005	.35	.61	-	.10	.71
82-03-23	1330	462	.030	.015	.015	.37	.52	.53	.06	.59
82-05-26	1420	462	.060	.009	.051	.01	.19	.20	.30	.50
82-06-15	1615	462	.070	.014	.056	.11	.36	.36	.32	.68
82-07-13	1500	462	.130	.010	.120	.09	.40	.40	.52	.92
82-11-23	1430	462	.023	.010	.013	.02	.26	.27	.07	.34
82-12-08	1500	462	.026	.009	.017	.03	.29	.29	.04	.33

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-26	1515	462	L .1	.010	4.0	.69	4.7	.08 05D	.0008	L .0005
82-02-23	1430	462	.1	L .003	--	-	--	.09 05D	.0007	L .0005
82-03-23	1330	462	.2	.014	3.4	.45	3.9	.07 05D	.0007	L .0005
82-05-26	1420	462	L .1	L .003	4.6	2.20	6.8	.04 05D	L .0005	L .0005
82-06-15	1615	462	L .1	L .003	6.2	2.70	8.9	.05 05D	L .0005	L .0005
82-07-13	1500	462	L .1	L .003	5.8	5.80	11.6	.05 05D	L .0005	L .0005
82-11-23	1430	462	L .1	L .003	6.4	.46	6.9	.05 05D	.0005	L .0005
82-12-08	1500	462	.1	L .003	5.6	.36	6.0	.08 05D	.0005	L .0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-26	1515	462	L .06	--	-	L .01	-	L .04	L .02	L .001
82-02-23	1430	462	.09	--	-	L .01	--	L .04	L .02	.002
82-03-23	1330	462	.07	--	-	.01	--	L .04	L .02	.001
82-05-26	1420	462	.21	-	-	L .01	-	L .04	L .02	.002
82-06-15	1615	462	.31	--	-	L .01	-	L .04	L .02	.003
82-07-13	1500	462	.46	-	--	L .01	--	L .04	L .02	.010
82-11-23	1430	462	.06	-	-	L .01	-	L .04	.04	L .001
82-12-08	1500	462	.18	-	-	L .01		L .04	L .02	.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-26	1515	462	L .015	L .002	.003	.001	.007	L .001	.10	L .004
82-02-23	1430	462	L .015	L .002	L .002	.002	.003	L .001	.11	L .004
82-03-23	1330	462	L .015	L .002	L .002	.002	L .001	L .001	.10	L .004
82-05-26	1420	462	L .015	L .002	L .002	.001	.002	L .001	.07	L .004
82-06-15	1615	462	L .015	L .002	.003	.006	--	L .001	.06	L .004
82-07-13	1500	462	L .015	.003	.007	.007	.011	L .001	.14	L .004
82-11-23	1430	462	L .015	L .002	L .002	L .001	.003	L .001	.09	L .004
82-12-08	1500	462	L .015	L .002	L .002	.001	.003	L .001	.08	L .004

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05KH0001 LAT. 53D 50M 30S LONG. 101D 20M 3S
SASKATCHEWAN RIVER ABOVE CARROT RIVER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-26	1515	462	.001	L1.0	L1.0	L .001	.007	L .001	L .001	L .002
82-02-23	1430	462	.002	L1.0	L1.0	L .001	.007	L .001	L .001	L .002
82-03-23	1330	462	L .001	L1.0	L1.0	L .001	.009	L .001	L .001	L .002
82-05-26	1420	462	.002	L1.0	L1.0	L .001	.003	L .001	L .001	L .002
82-06-15	1615	462	.002	L1.0	L1.0	L .001	.004	.001	L .001	L .002
82-07-13	1500	462	.001	L1.0	L1.0	L .001	.004	L .001	L .001	L .002
82-11-23	1430	462	.002	-	-	L .001	.003	L .001	L .001	L .002
82-12-08	1500	462	.001	-	-	L .001	.002	L .001	L .001	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-26	1515	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-02-23	1430	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-03-23	1330	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-26	1420	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-15	1615	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-13	1500	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-23	1430	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-12-08	1500	462	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-26	1515	462	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-02-23	1430	462	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-03-23	1330	462	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-05-26	1420	462	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-06-15	1615	462	L .002	L .0020	L .001	L .002	L .002	L .2	L .004	L .009
82-07-13	1500	462	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-11-23	1430	462	L .002	L .0020	L .001	L .003	L .002	-	-	
82-12-08	1500	462	L .002	L .0020	L .001	L .003	L .002	L .2	.090	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601L PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-26	1515	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-02-23	1430	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-03-23	1330	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-05-26	1420	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-06-15	1615	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-07-13	1500	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-11-23	1430	462	-				L .002	L .002	L .005	L .002
82-12-08	1500	462	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002

STATION - 00MA05KH0001 LAT. 53D 50M 30S LONG. 101D 20M 3S
SASKATCHEWAN RIVER ABOVE CARROT RIVER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-26	1200	7	--	--	--	--	--	1.05	.0063	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-01-26	1200	7	L.0084	L.0030	1.	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05LD0001 LAT. 53D 9M 15S LONG. 101D 6M 29S
OVERFLOWING RIVER AT HWY 10 MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-04	1330	1	5	19.4	--	653.	7.7	7.3	--	4.3
82-01-26	1045	1	5	19.7	1060.	1040	7.5	7.1	--	4.0
82-02-22	1130	1	.5	21.2	1580.	1510.	7.5	7.1	--	7.0
82-03-29	1030	1	1.0	19.6	2150.	2220.	7.2	7.1	--	23.0
82-04-26	1515	1	6.5	20.4	200.	210	7.6	7.2	--	2.6
82-05-25	1130	1	16.0	22.7	280.	324	7.9	7.8	--	1.5
82-07-05	1245	1	19.5	23.8	--	378.	7.4	7.9	--	1.2
82-08-09	1030	1	17.0	21.3	320.	321	8.1	8.1	--	1.8
82-09-13	1125	1	11.5	20.6	280.	354.	7.9	8.1	--	2.3
82-11-01	1140	1	1.0	19.2	280.	345	8.1	7.9	--	2.4
82-12-16	1105	1	5	19.0	410.	540.	6.3	7.2	--	3.1

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-04	1330	1	80	2	--	--	--	--	--	3.4
82-01-26	1045	1	140	5	--	--	--	--	--	1.5
82-02-22	1130	1	160	25	--	--	--	--	--	.5
82-03-29	1030	1	110	19	--	--	--	--	--	1.6
82-04-26	1515	1	60	3	--	--	--	--	--	9.6
82-05-25	1130	1	80	2	--	--	--	--	--	9.1
82-07-05	1245	1	90	2	--	--	--	--	--	7.7
82-08-09	1030	1	120	2	--	--	--	--	--	9.1
82-09-13	1125	1	80	2	--	--	--	--	--	10.1
82-11-01	1140	1	80	11.	--	--	--	--	--	11.1
82-12-16	1105	1	70	4	--	--	--	--	--	4.4

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-04	1330	1	0	0	334	274.0	62.10	45.7	343.2	24.0
82-01-26	1045	1	0	0	561	460.0	100.00	75.0	558.5	34.0
82-02-22	1130	1	0	0	750	615.0	140.00	91.0	724.2	74.0
82-03-29	1030	1	0	0	859	705.0	125.00	118.0	797.9	190.0
82-04-26	1515	1	0	0	65	53.0	14.00	8.5	70.0	17.0
82-05-25	1130	1	0	0	128	105.0	28.70	14.5	131.4	20.0
82-07-05	1245	1	0	0	171	140.0	34.10	18.5	161.3	20.0
82-08-09	1030	1	0	0	171	140.0	29.20	17.9	146.6	19.0
82-09-13	1125	1	0	0	159.	130.0	30.10	18.8	152.6	23.0
82-11-01	1140	1	0	0	146	120.0	25.30	17.0	133.2	23.0
82-12-16	1105	1	0	0	293	240.0	51.70	35.4	274.8	21.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-04	1330	1	3.9	33.0	.21	46	16.0	395.	--	.050
82-01-26	1045	1	6.3	63.0	.26	60.	26.0	640.	--	.047
82-02-22	1130	1	10.0	135.0	.29	80.	38.0	937	--	.013
82-03-29	1030	1	13.0	310.0	.29	98	40.0	1317.	--	.014
82-04-26	1515	1	1.9	29.0	L.05	6	3.1	111	--	.016
82-05-25	1130	1	1.8	31.0	.05	10.	1.0	170.	--	.011
82-07-05	1245	1	1.1	32.0	.11	10	3.1	202	--	.026
82-08-09	1030	1	.9	26.0	.10	8	6.7	192	--	.016
82-09-13	1125	1	1.3	37.0	L.05	10	5.8	204.	--	.017
82-11-01	1140	1	1.5	37.0	.12	11.	8.6	195.	--	.012
82-12-16	1105	1	2.6	34.0	.12	22.	9.6	320	--	.015

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05LD0001 LAT. 53D 9M 15S LONG. 101D 6M 29S
OVERFLOWING RIVER AT HWY 10 MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-04	1330	1	.038	.015 031	.023	.06 101	--	1.80	.07	1.87
82-01-26	1045	1	.036	.025 031	.011	L.01 101	--	2.10	.07	2.17
82-02-22	1130	1	.100	.031 031	.069	.01 101	--	3.90	.22	4.12
82-03-29	1030	1	.220	.050 031	.170	L.01 101	--	3.60	.22	3.82
82-04-26	1515	1	.053	.031 031	.022	.01 101	--	.46	.14	.60
82-05-25	1130	1	.110	.080 031	.030	.03 101	--	.66	.08	.74
82-07-05	1245	1	.049	.013 031	.036	L.01 101	--	.64	L.01	Q.65
82-08-09	1030	1	.021	.007 031	.014	L.01 101	--	.74	L.01	Q.75
82-09-13	1125	1	.027	.007 031	.020	L.01 101	--	.59	.05	.64
82-11-01	1140	1	.013	.010 031	L.006	L.01 101	--	.69	.02	.71
82-12-16	1105	1	.026	.012 031	.014	.06 101	--	1.10	.09	2.00

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-04	1330	1	--	--	37.0	.62	37.6	.27	L.0005 041	L.0005 021
82-01-26	1045	1	--	--	60.0	.58	60.6	.29	.0005 041	L.0005 021
82-02-22	1130	1	-	-	80.0	2.30	82.3	.35	.0009 041	L.0005 021
82-03-29	1030	1	--	--	76.0	2.20	78.2	.35	.0014 041	L.0005 021
82-04-26	1515	1	--	-	10.0	.98	11.0	.12	L.0005 041	L.0005 021
82-05-25	1130	1	-	-	17.0	.49	17.5	.13	L.0005 041	L.0005 021
82-07-05	1245	1		-	22.0	.36	22.4	.12	.0005 041	L.0005 021
82-08-09	1030	1	-	-	27.0	.29	27.3	.17	L.0005 041	L.0005 021
82-09-13	1125	1	--	--	19.0	.29	19.3	.17	L.0005 041	L.0005 021
82-11-01	1140	1	--	-	26.0	.22	26.2	.19	L.0005 041	L.0005 021
82-12-16	1105	1	-		34.0	.71	34.7	.12	L.0005 041	L.0005 021

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-04	1330	1			.02	-	.27	-	-	L.001
82-01-26	1045	1	-		-	-	-	-		L.001
82-02-22	1130	1		-	4.80	-	3.60	-	--	.002
82-03-29	1030	1			3.30		4.30	-	-	.001
82-04-26	1515	1	-	-	.05		.24	-	--	L.001
82-05-25	1130	1	-	--	.02	-	.13	--	-	L.001
82-07-05	1245	1			.02		.17	-	-	.001
82-08-09	1030	1	-	--	.01	-	.18			L.001
82-09-13	1125	1	-	-	L.01		.17	-	--	L.001
82-11-01	1140	1	-	--	L.01	-	.14	-	--	.002
82-12-16	1105	1	-		.04	-	.18	-		L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-04	1330	1	--	L.002	.003	.001	.012	L.001	L.05	L.004
82-01-26	1045	1	--	--	.010	-	--	L.001	.06	L.004
82-02-22	1130	1	--	.004	.003	.005	.015	L.001	.13	L.004
82-03-29	1030	1	--	L.002	L.002	.001	.009	L.001	.15	L.004
82-04-26	1515	1	--	L.002	L.002	.005	.003	.001	L.05	L.004
82-05-25	1130	1	-	L.002	L.002	.003	L.001	L.001	L.05	L.004
82-07-05	1245	1	--	L.002	.002	L.001	.001	L.001	L.05	L.004
82-08-09	1030	1	--	L.002	L.002	L.001	.009	L.001	L.05	L.004
82-09-13	1125	1	--	L.002	L.002	.001	.003	L.001	L.05	L.004
82-11-01	1140	1	--	L.002	L.002	L.001	.002	L.001	L.05	L.004
82-12-16	1105	1	--	L.002	L.002	L.001	.005	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05LB0001   LAT. 53D 9M 15S   LONG. 101D 6M 29S
OVERFLOWING RIVER AT HWY 10   MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-04	1330	1	.003	--	--	--	--	--	--	--
82-01-26	1045	1	.004	--	--	L .001	.004	L .001	L .001	L .002
82-02-22	1130	1	.009	--	--	L .001	.001	L .001	L .001	L .002
82-03-29	1030	1	.006	--	--	--	--	--	--	--
82-04-26	1515	1	.001	--	--	L .001	L .001	L .001	L .001	L .002
82-05-25	1130	1	.002	--	--	L .001	.002	L .001	L .001	L .002
82-07-05	1245	1	.002	--	--	L .001	.003	L .001	L .001	L .002
82-08-09	1030	1	.003	--	--	L .001	.004	L .001	L .001	L .002
82-09-13	1125	1	.005	--	--	L .001	.005	L .001	L .001	L .002
82-11-01	1140	1	.006	--	--	L .001	.001	L .001	L .001	L .002
82-12-16	1105	1	.005	--	-	L .001	.001	L .001	L .001	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-26	1045	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-02-22	1130	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-26	1515	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-25	1130	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-05	1245	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-09	1030	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-13	1125	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-01	1140	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-12-16	1105	1	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-26	1045	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-02-22	1130	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-04-26	1515	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-05-25	1130	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-05	1245	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-08-09	1030	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-09-13	1125	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-11-01	1140	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-12-16	1105	1	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-26	1045	1	L .004	L .002	L .004	-	L .002	L .002	L .005	L .002
82-02-22	1130	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-03-29	1030	1	--	--	--	L .2	--	--	--	-
82-04-26	1515	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-05-25	1130	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-07-05	1245	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-08-09	1030	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-09-13	1125	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-11-01	1140	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-12-16	1105	1	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002

FOOTNOTE. L - LESS THAN DETECTION LIMIT   G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN. L - PLUS PETIT QUE LA LIMITE DE DETECTION   G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00MA05LE0002 LAT. 52D 7M 30S LONG. 101D 15M 5S
SWAN RIVER AT HWY 10, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061I TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-04	1715	1	.5	19.5	--	1070.	7.5	7.6	--	5.4
82-01-26	1620	1	.5	18.9	1090	1040.	7.6	7.2	--	5.0
82-02-22	1600	1	1.0	20.8	1000	932.	7.4	7.3	--	5.0
82-03-29	1600	1	.5	19.1	780	764.	7.8	7.7	--	2.9
82-04-26	1820	1	5.5	21.0	220	235.	7.9	7.8	--	56.0
82-05-25	1630	1	--	22.7	540	455.	8.4	8.3	--	3.0
82-07-05	1445	1	24.5	23.9	--	458.	8.2	8.3	--	2.8
82-08-09	1500	1	21.0	20.2	416	406.	8.3	8.4	--	18.0
82-09-13	1420	1	13.5	20.6	360	466.	8.5	8.4	--	3.6
82-11-01	1625	1	1.5	20.7	380	489.	8.1	8.3	--	3.8
82-12-16	1645	1	.5	18.9	580.	762.	7.4	7.5	--	2.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-04	1715	1	60.	5.	--	--	--	--	--	4.3
82-01-26	1620	1	50.	5.	--	--	--	--	--	1
82-02-22	1600	1	40.	4.	--	--	--	--	--	3.5
82-03-29	1600	1	20.	11.	--	--	--	--	--	10.9
82-04-26	1820	1	50.	128.	--	--	--	--	--	11.7
82-05-25	1630	1	40.	3.	--	--	--	--	--	9.5
82-07-05	1445	1	30.	5.	--	--	--	--	--	10.4
82-08-09	1500	1	60.	27.	--	--	--	--	--	9.3
82-09-13	1420	1	40.	3.	--	--	--	--	--	10.9
82-11-01	1625	1	40.	3.	--	--	--	--	--	12.2
82-12-16	1645	1	30.	5.	--	--	--	--	--	6.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-04	1715	1	0.	.0	575	472.0	144.00	51.0	569.5	24.0
82-01-26	1620	1	0	.0	610	500.0	136.00	53.0	557.8	20.0
82-02-22	1600	1	0	.0	549	450.0	111.00	46.5	468.6	20.0
82-03-29	1600	1	0.	.0	427	350.0	85.00	37.4	366.2	22.0
82-04-26	1820	1	0	.0	118	97.0	32.60	10.3	123.8	3.8
82-05-25	1630	1	0.	.0	226	185.0	61.10	20.1	235.3	9.7
82-07-05	1445	1	0	.0	219.	180.0	55.20	20.8	223.5	13.0
82-08-09	1500	1	2.	1.9	227	190.0	57.10	18.9	220.4	9.6
82-09-13	1420	1	6	5.0	268	230.0	66.90	23.5	263.8	12.0
82-11-01	1625	1	0	.0	280	230.0	61.40	24.6	254.6	12.0
82-12-16	1645	1	0.	.0	441	362.0	105.00	38.3	419.9	17.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-04	1715	1	6.1	6.3	.26	118.	29.0	662.	--	--
82-01-26	1620	1	6.3	5.8	.26	114.	28.0	663.	--	--
82-02-22	1600	1	5.7	5.8	.21	116.	26.0	601.	--	--
82-03-29	1600	1	6.4	11.0	.17	92.	20.0	484.	--	--
82-04-26	1820	1	3.6	1.6	.09	22.	7.2	139.	--	--
82-05-25	1630	1	4.1	2.8	.13	52.	5.0	266.	--	--
82-07-05	1445	1	4.5	4.5	.15	60.	9.5	276.	--	--
82-08-09	1500	1	3.1	2.1	.15	34.	12.0	251.	--	--
82-09-13	1420	1	4.0	3.7	.15	49.	8.0	305	-	--
82-11-01	1625	1	3.4	3.0	.17	54.	8.9	305.	--	--
82-12-16	1645	1	4.5	5.0	.16	97.	20.0	504.	--	--

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05LE0002
SWAN RIVER AT HWY 10, MANITOBA

LAT. 52D 7M 30S LONG. 101D 15M 5S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-04	1715	1	.041	.016 03L	.025	.33 10L	--	.98	L.01	0.99
82-01-26	1620	1	.046	.023 03L	.023	.10 10L	--	1.10	.09	1.19
82-02-22	1600	1	.045	.010 03L	.035	L.01 10L	--	.74	.08	.82
82-03-29	1600	1	.071	.056 03L	.015	.44 10L	--	.85	.09	.94
82-04-26	1820	1	.260	.055 03L	.205	.09 10L	--	.44	.71	1.15
82-05-25	1630	1	.029	.014 03L	.015	L.01 10L	--	.37	.06	.43
82-07-05	1445	1	.040	.010 03L	.030	L.01 10L	--	.40	.05	.45
82-08-09	1500	1	.069	.024 03L	.045	.03 10L	--	.59	.14	.73
82-09-13	1420	1	.030	.006 03L	.024	L.01 10L	--	.41	.05	.46
82-11-01	1625	1	.018	.012 03L	.006	L.01 10L	--	.45	.03	.48
82-12-16	1645	1	.032	.011 03L	.021	.13 10L	--	.59	.04	.63

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-04	1715	1	--	--	24.0	.40	24.4	.20	.0011 04L	L.0005 02L
82-01-26	1620	1	--	--	27.0	.53	27.5	.20	.0006 04L	L.0005 02L
82-02-22	1600	1	--	--	21.0	.45	21.5	.18	.0012 04L	L.0005 02L
82-03-29	1600	1	--	--	13.0	.44	13.4	.16	.0009 04L	L.0005 02L
82-04-26	1820	1	--	--	9.0	5.00	14.0	.11	.0014 04L	L.0005 02L
82-05-25	1630	1	--	--	11.0	.39	11.4	.11	.0015 04L	L.0005 02L
82-07-05	1445	1	--	--	12.0	.47	12.5	.11	.0026 04L	L.0005 02L
82-08-09	1500	1	--	--	18.0	1.10	19.1	.14	.0027 04L	L.0005 02L
82-09-13	1420	1	--	--	14.0	.34	14.3	.14	.0018 04L	L.0005 02L
82-11-01	1625	1	--	--	16.0	.21	16.2	.13	.0013 04L	L.0005 02L
82-12-16	1645	1	--	--	18.0	.27	18.3	.11	.0005 04L	L.0005 02L

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTE/ RIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05LE0003 LAT. 52D 12M 29S LONG. 101D 15M 5S
WOODY RIVER AT HWY 10. MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061I TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-04	1615	1	.5	18.8	--	564	7.4	7.5	--	5.6
82-01-26	1520	1	.5	19.9	660	584	7.6	7.3	--	7.7
82-02-22	1500	1	1.0	20.9	600	584	7.5	7.3	--	5.0
82-03-29	1510	1	.5	18.4	510	511	7.4	7.4	--	5.1
82-04-26	1730	1	4.5	20.5	210	219	8.0	7.8	--	31.0
82-05-25	1600	1	21.0	22.7	305	301	8.4	8.3	--	4.2
82-07-05	1430	1	23.0	23.9	--	380	8.1	8.3	--	1.9
82-08-09	1200	1	15.5	20.9	270	281	8.2	8.3	--	5.2
82-09-13	1335	1	12.0	21.0	320	306	7.5	8.3	--	3.0
82-11-01	1550	1	1.5	19.0	330	338	8.0	8.2	--	4.2
82-12-16	1615	1	.5	19.2	420	462	7.7	7.5	--	4.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-04	1615	1	50	5	-	--	-	-	--	8.2
82-01-26	1520	1	50	7	--	--	--	--	--	2.4
82-02-22	1500	1	50	7	-	--	-	--	--	2.3
82-03-29	1510	1	20	3	--		-	-	--	7.2
82-04-26	1730	1	50	64	-	--	-	-	--	12.6
82-05-25	1600	1	40	5	-	--	-	-	--	9.4
82-07-05	1430	1	30	3	--	-	--	--	-	9.6
82-08-09	1200	1	50	10	--	--		-	--	9.3
82-09-13	1335	1	40	4 01N	--	--	-	--	--	10.1
82-11-01	1550	1	50	2	--	--	--	--	-	12.4
82-12-16	1615	1	30	4		--	--	-	--	10.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-04	1615	1	0	0	324	266.0	78.10	26.9	305.8	8.3
82-01-26	1520	1	0	0	341	280.0	81.80	29.0	323.7	10.0
82-02-22	1500	1	0	0	305	250.0	69.80	27.8	288.7	12.0
82-03-29	1510	1	0	0	280	230.0	70.20	25.5	280.3	13.0
82-04-26	1730	1	0	0	122	100.0	31.90	10.6	123.3	2.1
82-05-25	1600	1	0	0	165	135.0	42.50	13.5	161.7	3.9
82-07-05	1430	1	0	0	226	185.0	53.80	18.6	210.9	7.1
82-08-09	1200	1	0	0	183	150.0	42.30	14.1	163.7	3.6
82-09-13	1335	1	0	0	201	165.0	49.60	15.6	188.1	5.3
82-11-01	1550	1	0	0	207	170.0	44.10	15.4	173.5	5.0
82-12-16	1615	1	0	.0	280	230.0	67.60	22.6	261.8	7.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-04	1615	1	2.9	2.5	.20	36.	13.0	327.	--	--
82-01-26	1520	1	3.2	3.3	.22	48.	13.0	356.	--	-
82-02-22	1500	1	3.1	3.4	.16	56.	13.0	335.	-	--
82-03-29	1510	1	3.7	3.8	.12	58.	11.0	323.	--	--
82-04-26	1730	1	2.4	1.3	.10	12.	6.8	127.	--	--
82-05-25	1600	1	2.3	1.3	.09	20.	4.0	169.	--	--
82-07-05	1430	1	2.7	2.6	.13	30.	5.8	232.	--	--
82-08-09	1200	1	1.8	1.1	.12	13.	7.1	173.	--	--
82-09-13	1335	1	3.0	2.6	.10	22.	5.6	203.	-	--
82-11-01	1550	1	2.0	1.4	.14	22.	7.5	199.	--	--
82-12-16	1615	1	7.8	2.0	.11	38.	13.0	296.	--	--

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05LE0003
WOODY RIVER AT HWY 10, MANITOBA

LAT. 52D 12M 29S LONG. 101D 15M 5S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-04	1615	1	022	008 03L	014	08 10L	--	1 00	L 01	01 01
82-01-26	1520	1	110	010 03L	100	14 10L	--	84	07	91
82-02-22	1500	1	037	008 03L	029	23 10L	--	74	06	80
82-03-29	1510	1	025	009 03L	016	28 10L	--	75	08	83
82-04-26	1730	1	120	023 03L	097	06 10L	--	42	46	88
82-05-25	1600	1	017	006 03L	011	L 01 10L	--	35	L 01	G 36
82-07-05	1430	1	020	005 03L	015	01 10L	--	43	L 01	G 44
82-08-09	1200	1	028	007 03L	021	L 01 10L	--	49	10	59
82-09-13	1335	1	018 06R	006 03R	012 01R	L 01 10R	--	36 51R	L 01 02R	-
82-11-01	1550	1	016	007 03L	009	L 01 10L	--	42	04	46
82-12-16	1615	1	015	010 03L	009	12 10L	--	59	05	64

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-04	1615	1	--	-	21 0	53	21 5	18	0005 04L	L 0005 02L
82-01-26	1520	1	--	-	17 0	69	17 7	15	0005 04L	L 0005 02L
82-C2-22	1500	1	--	-	17 0	55	17 6	18	L 0005 04L	L 0005 02L
82-03-29	1510	1	--	-	15 0	59	15 6	14	0005 04L	L 0005 02L
82-04-26	1730	1	--	-	11 0	5 90	16 9	10	0005 04L	L 0005 02L
82-05-25	1600	1	--	-	13 0	59	13 6	09	0006 04L	L 0005 02L
82-07-05	1430	1	--	-	14 0	42	14 4	09	0004 04L	L 0005 02L
82-08-09	1200	1	--	-	23 0	77	23 8	11	0010 04L	L 0005 02L
82-09-13	1335	1	--	-	12 0 04R	32 02R		10	0007 04L	L 0005 02L
82-11-01	1550	1	--	-	15 0	31	15 3	12	0006 04L	L 0005 02L
82-12-16	1615	1	--	-	17 0	46	17 5	10	L 0005 04L	L 0005 02L

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - OOMA05NF0001 LAT. 49D 5M 27S LONG. 100D 56M 51S
SOURIS RIVER AT COULTER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-04-27	1612	140	9.0	21 9	660.	531.	8 1	7.7	5.2	2.7
82-05-26	1603	140	19.0	21.2	655.	689.	8 1	8 0	2 4	9.0
82-06-08	1510	140	14.0	25.8	770.	728.	8.2	8.2	7	2.0
82-07-30	0845	140	20.0	23 4	810.	764	9.3	9 4	.5	.7
82-08-31	0845	140	13.0	22.8	900.	866.	8 3	8 1	.2	1.6
82-09-27	1430	140	7 0	20 2	625.	888.	8 6	8.3	5	8.0
82-10-20	1521	140	5.0	20 1	--	823.	8.5	8 1	-	5.2
82-11-22	1607	140	.0	14.3	--	1100	7.8	7 8	2	3.0
82-12-13	1455	140	0	18 0	--	1300.	7.9	7 6	-	3 4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-04-27	1612	140	60	7	--	010	5	3.	--	10. 1
82-05-26	1603	140	60	2	--	005	3	L2.	--	7.8
82-06-08	1510	140	60	5	--	005	7	4.	--	8.3
82-07-30	0845	140	50	1	--	001	60	8	-	7 5
82-08-31	0845	140	80	3	--	008	400	140	--	7 3
82-09-27	1430	140	60	21	--	040	270	120	--	10 0
82-10-20	1521	140	50	10	-	050	--	40	--	10.0
82-11-22	1607	140	50	3.	--	010	6	L2	--	11.9
82-12-13	1455	140	50	5	--	010	10	L2	--	9.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-04-27	1612	140	0	0	183	150 0	35 00	19 4	167 3	48 0
82-05-26	1603	140	0	0	256	210.0	47 50	26 4	227 3	70 0
82-06-08	1510	140	0	0	293	240 0	52 10	29 8	252 8	80 0
82-07-30	0845	140	64	53 0	163	240.0	34 90	33 1	223 4	103 0
82-08-31	0845	140	0	0	378	310 0	50 80	35 6	273 4	116 0
82-09-27	1430	140	0	0	421	345 0	55 90	37 0	291 9	115 0
82-10-20	1521	140	0	0	390	320 0	52 30	34 9	274 3	120 0
82-11-22	1607	140	0	0	445	365 0	70 50	45 8	364 6	140 0
82-12-13	1455	140	0	0	536	440 0	84 70	55 0	437 9	170 0

STATION - 00MA05NF0001 LAT. 49D 5M 27S LONG. 100D 56M 51S
SOURIS RIVER AT COULTER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-04-27	1612	140	11.0	15.0	.15	96.	6.3	321.	--	.003
82-05-26	1603	140	11.0	17.0	.13	140.	9.0	447.	--	.003
82-06-08	1510	140	11.0	20.0	.16	154.	8.0	499.	--	.005
82-07-30	0845	140	9.2	20.0	.18	170.	1.2	515.	--	.006
82-08-31	0845	140	11.0	20.0	.20	155.	2.8	577.	--	.004
82-09-27	1430	140	12.0	21.0	.25	144.	5.4	597.	--	.008
82-10-20	1521	140	12.0	23.0	.20	142.	4.1	580.	--	--
82-11-22	1607	140	14.0	35.0	.32	236.	7.2	768.	--	.001
82-12-13	1455	140	14.0	40.0	.23	286.	8.9	923.	--	.008

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-04-18	1600	401	.460	--	--	--	--	.80	2.20	3.00
82-04-19	1600	401	.490	--	--	--	--	.75	2.40	3.15
82-04-20	1600	401	1.300	--	--	--	--	.75	6.30	7.05
82-04-21	1600	401	1.200	--	--	--	--	.69	4.80	5.49
82-04-22	1600	401	1.200	--	--	--	--	.61	4.40	5.01
82-04-23	1600	401	1.100	--	--	--	--	.62	3.40	4.02
82-04-24	1600	401	1.200	--	--	--	--	.64	3.00	3.64
82-04-25	1600	401	1.000	--	--	--	--	.65	2.90	3.55
82-04-26	1600	401	.600	--	--	--	--	.63	2.50	3.13
82-04-27	1600	401	.800	--	--	--	--	.64	2.60	3.24
	1612	140	.140	.075	.065	1.01	.66	.62	.23	.85
82-04-28	1600	401	.500	--	--	--	--	.64	1.80	2.44
	1601	401	.380	--	--	--	--	.64	1.30	1.94
	1602	401	.260	--	--	--	--	.65	.83	1.48
	1603	401	.250	--	--	--	--	.65	.84	1.49
	1604	401	.260	--	--	--	--	.63	.82	1.45
	1605	401	.260	--	--	--	--	.63	.79	1.42
82-04-29	1520	401	.350	--	--	--	--	.70	.99	1.69
82-04-30	1520	401	.240	--	--	--	--	.73	.68	1.41
82-05-01	1520	401	.210	--	--	--	--	.75	.57	1.32
82-05-02	1520	401	.210	--	--	--	--	.77	.61	1.38
82-05-03	1520	401	.200	--	--	--	--	.76	.59	1.35
82-05-04	1520	401	.220	--	--	--	--	.81	.62	1.43
82-05-05	1520	401	.550	--	--	--	--	.72	1.50	2.22
82-05-06	1520	401	1.600	--	--	--	--	.66	3.80	4.46
82-05-07	1520	401	1.100	--	--	--	--	.69	2.70	3.39
82-05-08	1520	401	.320	--	--	--	--	.75	.67	1.42
82-05-09	1520	401	.220	--	--	--	--	.78	.44	1.22
82-05-10	1520	401	.190	--	--	--	--	.78	.33	1.11
82-05-11	1520	401	.170	--	--	--	--	.78	.29	1.07
	1521	401	.160	--	--	--	--	.76		
	1522	401	.130	--	--	--	--	.81	.17	.98
	1523	401	.130	--	--	--	--	.79	.16	.95
	1524	401	.120	--	--	--	--	.77	.15	.92
	1525	401	.120	--	--	--	--	.77	.15	.92
82-05-12	1800	401	.150	--	--	--	--	.81	.27	1.08
82-05-13	1800	401	.120	--	--	--	--	.78	.21	.99
82-05-14	1800	401	.200	--	--	--	--	.89	.51	1.40
82-05-15	1800	401	.180	--	--	--	--	.93	.36	1.29
82-05-16	1800	401	.170	--	--	--	--	.92	.28	1.20
82-05-17	1800	401	.160	--	--	--	--	.90	.25	1.15
82-05-18	1800	401	.140	--	--	--	--	.84	.15	.99
82-05-19	1700	401	.200	--	--	--	--	.77	.29	1.06

STATION - 00MA05NF0001 LAT. 49D 5M 27S LONG. 100D 56M 51S
SOURIS RIVER AT COULTER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-05-20	1700	401	170	--	--	--	--	.78	.22	1.00
82-05-21	1700	401	.190	--	--	--	--	.86	.21	1.07
82-05-22	1700	401	.190	--	--	--	--	.82	.24	1.06
82-05-23	1700	401	.190	--	--	--	--	.80	.19	.99
82-05-24	1700	401	.190	--	--	--	--	.79	.16	.95
	1701	401	.180	--	--	--	--	.67	.11	.78
	1702	401	.160	--	--	--	--	.63	.07	.70
	1703	401	.160	--	--	--	--	.63	06	.69
	1704	401	.160	--	--	--	--	.63	05	.68
	1705	401	.160	--	--	--	--	61	.06	.67
82-05-26	1603	140	.170	160	.010	L .01	60	61	04	.65
	2230	401	.180	--	--	--	--	.74	.13	.87
82-05-27	2230	401	.190	--	--	--	--	76	11	.87
82-05-28	2230	401	.190	--	--	--	--	.76	L .01	0.77
82-05-29	2230	401	.210	--	--	--	--	78	.10	.88
82-05-30	2230	401	.210	--	--	--	--	.77	12	.89
82-05-31	2230	401	.230	--	--	--	--	78	.10	.88
82-06-01	2230	401	.220	--	--	--	--	78	09	.87
82-06-02	2230	401	.310	--	--	--	--	87	.41	1.28
	2231	401	.220	--	--	--	--	73	.13	.86
	2232	401	.220	--	--	--	--	73	.11	.84
	2233	401	.220	--	--	--	--	75	.13	.88
	2234	401	.220	--	--	--	--	72	19	.91
	2235	401	.280	--	--	--	--	.79	.42	1.21
82-06-03	2230	401	.230	--	--	--	--	76	10	.86
82-06-04	2230	401	.240	--	--	--	--	77	09	.86
82-06-05	2230	401	.240	--	--	--	--	76	.04	.80
82-06-06	2230	401	260	--	--	--	--	.75	.14	.89
82-06-07	2230	401	.260	--	--	--	--	.76	12	88
	2231	401	200	--	--	--	--	.70	.11	.81
	2232	401	.210	--	--	--	--	.73	.09	.82
	2233	401	.220	--	--	--	--	.70	12	.82
	2234	401	200	--	--	--	--	71	.09	.80
	2235	401	210	--	--	--	--	73	11	.84
82-06-08	1510	140	270	240	030	L 01	72	73	08	.81
82-06-10	2230	401	260	--	--	--	--	74	.14	88
82-06-11	2230	401	260	--	--	--	--	75	.15	.90
82-06-12	2230	401	250	--	--	--	--	.77	21	98
82-06-13	2230	401	270	--	--	--	--	80	17	.97
82-06-14	2230	401	270	--	--	--	--	92	18	1.10
82-06-15	2230	401	300	--	--	--	--	89	.25	1.14
82-06-16	2230	401	.290	--	--	--	--	81	25	1.06
82-06-17	2230	401	330	--	--	--	--	90	44	1.34
82-06-18	2230	401	340	--	--	--	--	81	20	1.01
82-06-19	2230	401	360	--	--	--	--	82	35	1.15
82-06-20	2230	401	350	--	--	--	--	81	27	1.08
82-06-21	2230	401	330	--	--	--	--	81	25	1.06
82-06-22	2230	401	320	--	--	--	--	94	.23	1.17
	2231	401	320	--	--	--	--	82	13	.95
	2232	401	330	--	--	--	--	.83	08	91
	2233	401	.320	--	--	--	--	80	08	88
	2234	401	320	--	--	--	--	.83	08	91
	2235	401	320	--	--	--	--	80	09	89
82-06-23	2230	401	.300	--	--	--	--	80	25	1.05
82-06-24	2230	401	310	--	--	--	--	77	15	.92
82-06-25	2230	401	320	--	--	--	--	77	18	.95
82-06-26	2230	401	360	--	--	--	--	.78	11	89
82-06-28	2230	401	310	--	--	--	--	78	08	.86
82-06-29	2230	401	.310	--	--	--	--	75	.08	.83
	2231	401	300	--	--	--	--	78	06	.84
	2232	401	300	--	--	--	--	79	06	.85
	2233	401	300	--	--	--	--	80	07	87
	2234	401	.300	--	--	--	--	78	05	83
	2235	401	.300	--	--	--	--	79	.05	.84
82-06-30	2230	401	310	--	--	--	--	79	.06	85
82-07-01	2230	401	.320	--	--	--	--	80	.09	89
82-07-02	2230	401	280	--	--	--	--	79	.10	89
82-07-03	2230	401	260	--	--	--	--	81	07	88
82-07-04	2230	401	280	--	--	--	--	83	08	.91
82-07-05	2230	401	.270	--	--	--	--	82	.08	.90
82-07-06	2230	401	260	--	--	--	--	85	.09	.94
82-07-07	2230	401	.250	--	--	--	--	95	.08	1.03
82-07-08	2230	401	.260	--	--	--	--	1.00	.11	1.11
82-07-09	2230	401	.270	--	--	--	--	1.00	.14	1.14
82-07-10	2230	401	.260	--	--	--	--	.95	.08	1.03
82-07-11	2230	401	.230	--	--	--	--	.96	.07	1.03
82-07-12	2230	401	.230	--	--	--	--	.92	07	.99
82-07-13	2230	401	.220	--	--	--	--	.93	08	1.01
	2231	401	.210	--	--	--	--	93	.07	1.00
	2232	401	.200	--	--	--	--	.93	.05	.98
	2233	401	.210	--	--	--	--	.98	.05	1.03
	2234	401	.200	--	--	--	--	.94	.06	1.00
	2235	401	.230	--	--	--	--	1.00	.08	1.08
82-07-21	2230	401	.210	--	--	--	--	.91	.08	.99
82-07-22	2230	401	.200	--	--	--	--	.91	.10	1.01
82-07-23	2230	401	.180	--	--	--	--	.88	.08	.96

STATION - 00MA05NF0001 LAT. 49D 5M 27S - LONG. 100D 56M 51S
SOURIS RIVER AT COULTER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-07-24	2230	401	.190	--	--	--	--	.86	.08	94
82-07-25	2230	401	.140	--	--	--	--	.81	--	--
82-07-30	0845	140	.220	.200	.020	L.01	1.00	.97	L.01	0.98
82-08-31	0845	140	480	.450	030	.01	.98	1.00	.13	1.10
82-09-27	1430	140	.310	.220	.090	L.01	97	1.00	.35	1.40
82-10-20	1521	140	.200	090	110	L.01	.98	1.00	.43	1.40
82-11-22	1607	140	150	.110	040	L.01	.79	.80	.17	.97
82-12-13	1455	140	160	.120	.040	L.01	88	.93	.12	1.00

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-04-27	1612	140	L.1	--	10.0	1.40	11.4	.18 05D	0024	L.0005
82-05-26	1603	140	L.1	--	13.0	30	13.3	26 05D	0028	L.0005
82-06-08	1510	140	L.1	--	14.0	59	14.6	.29 05D	0025	L.0005
82-07-30	0845	140	L.1	--	17.0	85	17.9	.30 05D	0033	L.0005
82-08-31	0845	140	L.1	--	20.0	72	20.7	37 05D	0030	L.0005
82-09-27	1430	140	L.1	-	20.0	2.40	22.4	.35 05D	0020	L.0005
82-10-20	1521	140	L.1	--	17.0	2.40	19.4	28 05D	0015	L.0005
82-11-22	1607	140	L.1	-	16.0	95	17.0	32 05D	0019	L.0005
82-12-13	1455	140	L.1	--	20.0	88	20.9	35 05D	0019	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-04-27	1612	140	--	--	--	L.01	--	05	L.02	.001
82-05-26	1603	140	-	--	-	02		04	L.02	002
82-06-08	1510	140		-		01		L.04	.02	L.001
82-07-30	0845	140				01	-	L.04	06	002
82-08-31	0845	140	-	-	-	01	--	04	06	L.001
82-09-27	1430	140		-	-	01	--	L.04	11	002
82-10-20	1521	140		-	-	L.01		L.04	L.02	.001
82-11-22	1607	140		-	-	02	--	L.04	03	L.001
82-12-13	1455	140	-			06	-	.04	03	.001

STATION - 00MA05NF0001 LAT. 49D 5M 27S LONG. 100D 56M 51S
SOURIS RIVER AT COULTER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-04-27	1612	140	--	L.002	L.002	.005	L.001	L.001	.05	L.004
82-05-26	1603	140	--	L.002	.005	L.001	.001	L.001	L.05	L.004
82-06-08	1510	140	--	L.002	.012	.005	--	L.001	.07	L.004
82-07-30	0845	140	--	L.002	.002	.002	.020	.005	L.05	L.004
82-08-31	0845	140	--	L.002	.005	.004	--	L.001	.09	L.004
82-09-27	1430	140	--	L.002	L.002	.002	.003	L.001	.10	L.004
82-10-20	1521	140	--	L.002	L.002	.001	.002	L.001	.07	L.004
82-11-22	1607	140	--	L.002	L.002	.003	.003	L.001	.10	L.004
82-12-13	1455	140	--	L.002	.005	L.001	L.001	L.001	.07	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-04-27	1612	140	.003	--	--	L.001	L.001	L.001	L.001	L.002
82-05-26	1603	140	.002	--	--	L.001	.006	L.001	L.001	L.002
82-06-08	1510	140	.004	--	--	L.001	.008	.004	L.001	L.002
82-07-30	0845	140	.004	--	--	L.001	.002	L.001	L.001	L.002
82-08-31	0845	140	.006	--	--	L.001	.008	L.001	L.001	L.002
82-09-27	1430	140	.004	--	--	L.001	.008	L.001	L.001	L.002
82-10-20	1521	140	.004	--	--	L.001	.008	L.001	L.001	L.002
82-11-22	1607	140	.004	--	-	L.001	.002	L.001	L.001	L.002
82-12-13	1455	140	.005	--	--	L.001	.003	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-04-27	1612	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-26	1603	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-08	1510	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-30	0845	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-31	0845	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-27	1430	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-20	1521	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-22	1607	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-13	1455	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NF0001 SOURIS RIVER AT COULTER, MANITOBA

LAT. 49D 5M 27S LONG. 100D 56M 51S

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-04-27	1612	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-26	1603	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-08	1510	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-30	0845	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-31	0845	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-27	1430	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-20	1521	140	L.002	L.0020	L.001	L.003	L.002	L.2	.030	L.009
82-11-22	1607	140	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-12-13	1455	140	L.002	L.0020	L.001	L.003	L.002	L.2	.030	L.009
									.080	

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-04-27	1612	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-26	1603	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-08	1510	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-30	0845	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-31	0845	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-27	1430	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-20	1521	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-22	1607	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-13	1455	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-01-19	1200	7	-	-	-		--	93	0033	4.9580

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NF0001 LAT. 49D 5M 27S LONG. 100D 58M 51S
SOURIS RIVER AT COULTER, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-01-19	1200	7	.0059	L .0011	1.	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NF0005
GAINSBOROUGH CREEK AT HWY 83. 1.92KM. ABOVE MOUTH. MANITOBA

LAT 49D 9M 29S LONG. 101D 2M 48S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-04-27	1133	3	8.0	21.7	320.	325.	8.3	7.7	4.2	2.4
82-05-26	1118	3	18.0	20.7	470	488	8.0	8.0	2.0	1.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO 02 MG/L
82-04-27	1133	3	60	6	--	030	7	5.	--	10.9
82-05-26	1118	3	50	11	--	.004	14	7	--	8.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-04-27	1133	3	0	0	146	120.0	31.50	15.8	143.7	6.0
82-05-26	1118	3	0	.0	250.	205.0	52.90	25.9	238.7	15.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-04-27	1133	3	9.0	5.8	13	34	10.0	184	--	--
82-05-26	1118	3	11.0	8.2	08	54	3.6	294		--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-04-27	1133	3	160	063	097	L 01	63	61	.25	86
82-05-26	1118	3	140	120	020	L 01	59	60	04	.64

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-04-27	1133	3	L 1	--	9.2	1.30	10.5	11 05D	0020	L 0005
82-05-26	1118	3	L 1		12.0	.33	12.3	10 05D	0029	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-04-27	1133	3	--	-	--	01	-	07	L 02	-
82-05-26	1118	3	--	--	--	03	-	05	L 02	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT   G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION   G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NF0009 LAT. 49D 5M 13S LONG. 101D 0M 42S
ANTLER RIVER NEAR COULTER AT HWY 251 MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-04-27	1336	3	8.0	21.5	400.	401.	8.0	7.6	5.8	2.8
82-05-26	1336	3	17.0	20.2	610.	614.	8.0	7.9	2.3	.7
82-06-08	1320	3	13.0	25.6	690.	667.	7.9	7.9	.4	.8
82-09-27	1600	3	7.0	20.1	675.	999.	8.0	7.7	.4	4.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-04-27	1336	3	60	6	--	.020	4	3.	--	10.4
82-05-26	1336	3	40	1	--	.007	19	11.	--	7.6
82-06-08	1320	3	30	2.	--	.002	28.	17	--	7.7
82-09-27	1600	3	70	11	--	.090	400	40.	--	7.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-04-27	1336	3	0	.0	146	120.0	38.40	18.2	170.8	9.1
82-05-26	1336	3	0	0	274	225.0	66.30	33.9	305.1	27.0
82-06-08	1320	3	0.	0	305	250.0	69.60	35.8	321.2	31.0
82-09-27	1600	3	0	.0	524	430.0	99.80	58.0	488.0	51.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-04-27	1336	3	8.1	12.0	.11	58	12.0	228.	--	--
82-05-26	1336	3	11.0	25.0	.12	94	9.2	401.	--	--
82-06-08	1320	3	11.0	30.0	.13	90	3.5	421		-
82-09-27	1600	3	15.0	49.0	.12	100	19.0	650		

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-04-27	1336	3	.140	.054	.086	.34	.84	.83	.23	1.06
82-05-26	1336	3	.110	.085	.025	L.01	.55	.57	.06	.63
82-06-08	1320	3	.140	.120	.020	.01	.63	.62	L.01	0.63
82-09-27	1600	3	.500	.460	.040	.01	.81	.80	.33	1.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-04-27	1336	3	L.1	--	9.0	1.30	10.3	.14 .05D	.0018	.0005
82-05-26	1336	3	L.1	--	12.0	.38	12.4	.14 .05D	.0017	L.0005
82-06-08	1320	3	L.1	--	11.0	.28	11.3	.11 .05D	.0019	L.0005
82-09-27	1600	3	L.1	--	17.0	1.90	18.9	.14 .05D	.0042	L.0005

STATION - 00MA05NF0009
ANTLER RIVER NEAR COULTER AT HWY 251 MANITOBA LAT. 49D 5M 13S LONG. 101D 0M 42S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-04-27	1336	3	--	--	--	.04	--	.09	L.02	--
82-05-26	1336	3	--	--	--	.03	--	L.04	.04	--
82-06-08	1320	3	--	--	--	.05	--	L.04	L.02	--
82-09-27	1600	3	--	--	--	.38	--	.11	.06	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NG0013 LAT. 49D 44M 17S LONG. 101D 14M 8S
PIPESTONE CREEK 0.25 MILE FROM CROMER OFF BRIDGE ON HWY 255, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-30	0904	3	.0	19.4	500.	502	7.8	7.7	2.4	10.0
82-04-27	0803	3	5.0	21.9	500.	531	8.2	7.6	9.6	5.4
82-05-26	0752	3	15.0	23.8	770.	809.	8.2	8.2	2.8	1.6
82-06-08	0824	3	12.0	25.6	890.	855.	8.1	8.0	.6	1.0
82-10-20	1155	3	4.5	15.8	--	786.	8.3	8.0	.2	3.3
82-11-22	1235	3	.0	16.1	--	1070	8.2	8.1	.2	2.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-03-30	0904	3	60.	4.	-	.005	400.	220	--	10.3
82-04-27	0803	3	50.	14.	--	.030	180.	187	--	10.8
82-05-26	0752	3	30.	3.	--	.006	2.	L2.	--	8.8
82-06-08	0824	3	20	5	.	.006	280.	240.	--	9.0
82-10-20	1155	3	30.	10	--	.020	50.	10.	--	10.6
82-11-22	1235	3	20.	5.	-	.020	6.	L2.	--	12.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-30	0904	3	0	.0	177	145.0	34.40	23.7	183.5	29.0
82-04-27	0803	3	0.	.0	177.	145.0	45.20	26.6	222.4	21.0
82-05-26	0752	3	0.	.0	274	225.0	67.30	46.4	359.1	50.0
82-06-08	0824	3	0.	0	305.	250.0	73.00	51.0	392.3	56.0
82-10-20	1155	3	0.	.0	274	225.0	62.20	46.0	344.7	50.0
82-11-22	1235	3	0.	0	378	310.0	82.20	66.0	477.6	75.0

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NG0013 LAT. 49D 44M 17S LONG. 101D 14M 8S
PIPESTONE CREEK 0.25 MILE FROM CROMER OFF BRIDGE ON HWY 255. MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201I TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-30	0904	3	11.0	12.0	.10	90.	12.0	299.	--	.016
82-04-27	0803	3	7.9	8.5	.16	118.	13.0	327.	--	.006
82-05-26	0752	3	10.0	12.0	.13	212.	7.6	540.	--	.008
82-06-08	0824	3	11.0	17.0	.18	228	9.8	596.	--	.005
82-10-20	1155	3	11.0	14.0	.16	210.	8.3	537.	--	.001
82-11-22	1235	3	13.0	21.0	.24	240.	8.7	692.	--	.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406I PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-03-30	0904	3	.440	.350	.090	49	1.60	1.50	.45	1.95
82-04-27	0803	3	140	039	.101	08	54	.55	.35	90
82-05-26	0752	3	.063	.035	.028	L 1.01	49	49	.08	57
82-06-08	0824	3	.055	.038	017	L 01	.57	.57	.06	63
82-10-20	1155	3	.075	.029	.046	L 01	60	58	19	77
82-11-22	1235	3	.064	.025	.039	01	64	66	.17	.83

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-30	0904	3	1.0	--	16.0	2.40	18.4	25 05D	0028	L .0005
82-04-27	0803	3	L 1	--	9.1	1.80	10.9	14 05D	0028	L 0005
82-05-26	0752	3	L 1	--	9.5	46	10.0	18 05D	0032	L 0005
82-06-08	0824	3	L 1	-	10.0	35	10.4	19 05D	0025	L 0005
82-10-20	1155	3	L 1	--	11.0	1.30	12.3	18 05D	0016	L 0005
82-11-22	1235	3	L 1	--	13.0	88	13.9	.20 05D	0013	L 0005

STATION - 00MA05NG0013 LAT. 49D 44M 17S LONG. 101D 14M 8S
PIPESTONE CREEK 0.25 MILE FROM CROMER OFF BRIDGE ON HWY 255, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-30	0904	3	--	--	--	.45	--	.15	04	.003
82-04-27	0803	3	--	--	--	.19	--	.07	L.02	.001
82-05-26	0752	3	--	--	--	.03	--	.04	03	.003
82-06-08	0824	3	--	--	--	.10	--	L.04	L.02	L.001
82-10-20	1155	3	--	--	--	.02	--	L.04	.03	L.001
82-11-22	1235	3	--	--	--	.02	--	L.04	.09	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-03-30	0904	3	--	L.002	L.002	.003	L.001	L.001	06	L.004
82-04-27	0803	3	--	L.002	.003	.006	L.001	L.001	05	L.004
82-05-26	0752	3	--	L.002	L.002	L.001	L.001	L.001	L.05	L.004
82-06-08	0824	3	--	L.002	L.002	001	.002	L.001	.05	L.004
82-10-20	1155	3	--	L.002	002	.001	.002	L.001	06	L.004
82-11-22	1235	3	--	L.002	.002	L.001	.002	L.001	.07	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-03-30	0904	3	008	--	--	L.001	L.001	L.001	L.001	L.002
82-04-27	0803	3	.002	--	--	L.001	004	L.001	L.001	L.002
82-05-26	0752	3	002	-	--	L.001	006	L.001	L.001	L.002
82-06-08	0824	3	006			L.001	006	001	L.001	L.002
82-10-20	1155	3	.004	--	--	L.001	009	L.001	L.001	L.002
82-11-22	1235	3	004	--	-	L.001	.005	L.001	L.001	L.002

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05NG0013 LAT. 49D 44M 17S LONG. 101D 14M 8S
PIPESTONE CREEK 0.25 MILE FROM CROMER OFF BRIDGE ON HWY 255, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-03-30	0904	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-27	0803	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-26	0752	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-08	0824	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-20	1155	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-22	1235	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-03-30	0904	3	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-04-27	0803	3	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-05-26	0752	3	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-06-08	0824	3	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-10-20	1155	3	L .002	L .0020	L .001	L .003	L .002	L .2	.020	L .009
82-11-22	1235	3	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-03-30	0904	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-04-27	0803	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-05-26	0752	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-06-08	0824	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-10-20	1155	3	.004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-11-22	1235	3	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA050A0003 LAT 49D 6M 15S LONG. 99D 19M 22S
BADGER CREEK AT CARTWRIGHT, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-23	1241	3	.0	21.4	2000.	1980.	7.7	7.5	4.8	4.5
82-04-28	1144	3	9.0	21.2	800.	548.	8.1	8.0	2.4	1.0
82-05-27	1138	3	19.0	21.1	960.	981.	8.1	8.0	2.1	.7
82-06-09	1158	3	12.0	25.7	895.	878.	8.0	7.9	.5	1.3
82-09-28	0957	3	9.5	18.4	420.	571.	8.2	8.3	.2	1.6
82-10-21	0955	3	4.0	19.8	--	895.	8.1	8.0	.2	2.0
82-11-23	0944	3	.0	12.6	--	1080.	8.1	8.0	.1	2.5
82-12-14	0945	3	.0	7.8	--	959.	7.8	7.6	--	4.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-03-23	1241	3	40	5.	--	.005	12.	6.	--	8.3
82-04-28	1144	3	50	5.	--	.020	5.	2.	--	9.3
82-05-27	1138	3	60	2.	--	.001	24.	10.	--	6.8
82-06-09	1158	3	60	2.	--	.002	340.	290.	--	7.7
82-09-28	0957	3	50	5.	--	.010	80.	34.	--	9.8
82-10-21	0955	3	50	2.	--	.010	20.	12.	--	9.4
82-11-23	0944	3	50	4.	--	.002	8.	12.	--	10.6
82-12-14	0945	3	60	3.	--	.010	10.	2.	--	9.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-23	1241	3	0	0	658.	540.0	197.00	125.0	1006.5	125.0
82-04-28	1144	3	0	0	226.	185.0	58.40	33.0	281.7	22.0
82-05-27	1138	3	0	0	311.	255.0	91.00	61.0	478.4	58.0
82-06-09	1158	3	0	0	335.	275.0	76.30	55.0	417.0	48.0
82-09-28	0957	3	0	0	305.	250.0	53.40	31.0	261.0	33.0
82-10-21	0955	3	0	0	280.	230.0	92.60	52.0	445.3	45.0
82-11-23	0944	3	0	0	415.	340.0	108.00	70.0	557.9	57.0
82-12-14	0945	3	0	0	415.	340.0	81.50	59.0	446.4	59.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-23	1241	3	19.0	135.0	.20	430.	26.0	1381.	--	--
82-04-28	1144	3	11.0	11.0	.28	134.	11.0	391.	--	--
82-05-27	1138	3	14.0	15.0	.12	290.	4.4	686.	--	--
82-06-09	1158	3	14.0	16.0	.14	208.	5.0	587.	--	--
82-09-28	0957	3	14.0	11.0	.15	66.	5.6	364.	--	--
82-10-21	0955	3	14.0	16.0	.14	298.	15.0	671.	--	--
82-11-23	0944	3	18.0	21.0	.20	376.	17.0	871.	--	--
82-12-14	0945	3	18.0	26.0	.15	194.	22.0	664.	--	--

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA050A0003 LAT. 49D 6M 15S LONG. 99D 19M 22S
BADGER CREEK AT CARTWRIGHT, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-23	1241	3	190	.093	.097	46	1.70	1.70	.08	1.78
82-04-28	1144	3	.100	082	.018	L .01	.77	79	07	.86
82-05-27	1138	3	140	120	.020	.01	.78	84	05	.89
82-06-09	1158	3	.170	150	.020	.01	1.10	1.20	.06	1.26
82-09-28	0957	3	150	120	.030	02	1.00	1.00	07	1.10
82-10-21	0955	3	130	094	036	.28	1.10	1.00	10	1.10
82-11-23	0944	3	110	-	--	.64	2.00	2.00	.08	2.10
82-12-14	0945	3	260	190	.070	.82	2.60	2.70	13	2.80

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-23	1241	3	1 1	--	19.0	45	19.5	.24 05D	0012	L 0005
82-04-28	1144	3	L 1	-	13.0	49	13.5	14 05D	0019	L 0005
82-05-27	1138	3	L 1	-	17.0	39	17.4	18 05D	0020	L 0005
82-06-09	1158	3	1	--	19.0	49	19.5	16 05D	0017	L 0005
82-09-28	0957	3	1	--	16.0	50	16.5	12 05D	0015	L 0005
82-10-21	0955	3	L 1	--	14.0	62	14.6	16 05D	0015	L 0005
82-11-23	0944	3	1	-	21.0	58	21.6	17 05D	0017	L 0005
82-12-14	0945	3	2		24.0	78	24.8	.24 05D	0019	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-23	1241	3	--		--	1.90	-	09	05	--
82-04-28	1144	3		--		04	--	07	L 02	--
82-05-27	1138	3			-	13	-	05	02	--
82-06-09	1158	3			-	10	--	05	02	--
82-09-28	0957	3				03	--	06	05	--
82-10-21	0955	3			-	02	--	L 04	L 02	--
82-11-23	0944	3			-	04	-	04	02	--
82-12-14	0945	3				09	-	09		--

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

STATION - 00MA05OB0001
PEMBINA RIVER AT WINDYGATES, MANITOBA

LAT. 49D 1M 53S LONG. 98D 16M 40S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-24	0917	3	.0	21.8	480.	505.	7.9	7.5	26.0	15.0
82-04-28	1540	3	10.0	21.8	580.	537.	8.1	7.6	106.0	75.0
82-05-27	1504	3	21.0	20.8	620.	629.	8.2	8.1	28.0	27.0
82-06-09	1539	3	10.0	25.8	580.	551.	8.0	7.9	--	125.0
82-09-28	1319	3	10.5	18.5	550.	695.	8.3	8.2	.6	3.0
82-10-21	1305	3	4.0	19.1	--	775.	8.5	8.4	.2	2.4
82-11-23	1236	3	.0	14.0	--	1010.	8.0	7.8	.2	2.5
82-12-14	1300	3	.0	9.3	--	1020.	7.9	7.5	.1	1.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-03-24	0917	3	100.	21.	--	.002	90.	61.	--	12.2
82-04-28	1540	3	40.	385	--	.008	26.	16	--	10.1
82-05-27	1504	3	40.	70.	--	.004	70.	28.	--	8.3
82-06-09	1539	3	40.	454	--	.020	370.	370.	--	9.5
82-09-28	1319	3	40.	10	--	.020	--	330.	--	10.4
82-10-21	1305	3	20	5	--	.009	10	12.	--	12.3
82-11-23	1236	3	10.	4.	--	.001	12.	12.	--	10.9
82-12-14	1300	3	20	5	--	.005	14.	2.	--	7.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-24	0917	3	0.	0	140	115.0	43.10	15.2	170.2	37.0
82-04-28	1540	3	0	0	201	165.0	48.10	25.1	223.4	28.0
82-05-27	1504	3	0	.0	232	190.0	56.30	31.1	268.6	39.0
82-06-09	1539	3	0.	0	207	170.0	54.20	23.8	233.3	34.0
82-09-28	1319	3	0.	.0	271.	222.0	61.30	35.4	298.8	51.0
82-10-21	1305	3	5	4.0	283.	240.0	67.80	38.6	328.2	67.0
82-11-23	1236	3	0.	.0	415	340.0	102.00	53.0	472.9	74.0
82-12-14	1300	3	0	0	408	335.0	109.00	50.0	478.0	75.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-24	0917	3	9.8	12.0	16	118.	14.0	318.	--	.017
82-04-28	1540	3	9.3	12.0	18	120.	20.0	362.	--	.006
82-05-27	1504	3	11.0	11.0	.19	146	14.0	422.	--	.017
82-06-09	1539	3	8.6	10.0	.18	124	16.0	373.	--	.010
82-09-28	1319	3	10.0	14.0	15	154.	19.0	478.	--	.005
82-10-21	1305	3	10.0	18.0	.19	189	13.0	547.	--	.002
82-11-23	1236	3	11.0	22.0	.31	234.	17.0	717.	-	.002
82-12-14	1300	3	10.0	23.0	.20	246.	16.0	730.	--	.004

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05OB0001
PEMBINA RIVER AT WINDYGATES, MANITOBA

LAT 49D 1M 53S LONG. 98D 16M 40S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-24	0917	3	.800	.700	.100	.48	1.30	1.30	.24	1.54
82-04-28	1540	3	.460	120	.340	.03	.71	76	1.50	2.26
82-05-27	1504	3	.210	.150	.060	.03	.63	.69	.21	.90
82-06-09	1539	3	.460	.200	.260	.24	.72	.81	1.60	2.41
82-09-28	1319	3	.180	140	.040	.02	.61	62	.14	.76
82-10-21	1305	3	.110	.088	.022	01	.56	.55	L.01	Q.56
82-11-23	1236	3	.100	.090	010	.02	.51	.49	L.01	Q.50
82-12-14	1300	3	.110	092	.018	.05	48	.48	L.01	Q.49

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105I BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-24	0917	3	1	--	13.0	1.20	14.2	.30 05D	.0021	.0028
82-04-28	1540	3	L 1	--	11.0	9.50	20.5	14 05D	.0025	L .0005
82-05-27	1504	3	L 1	--	11.0	1.60	12.6	18 05D	.0022	L .0005
82-06-09	1539	3	L 1	--	8.4	13.00	21.4	.16 05D	.0022	L .0005
82-09-28	1319	3	L 1	--	9.4	.94	10.3	.18 05D	.0021	L .0005
82-10-21	1305	3	L 1	--	8.9	.36	9.3	19 05D	.0015	L .0005
82-11-23	1236	3	L 1	--	8.8	.30	9.1	21 05D	.0018	.0006
82-12-14	1300	3	L 1	--	7.9	.30	8.2	27 05D	.0016	.0007

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-24	0917	3	--	--	--	.31	--	.11	.05	.012
82-04-28	1540	3	--	--	--	02	--	L .04	03	.044
82-05-27	1504	3	--	--	--	02	--	L .04	L .02	.009
82-06-09	1539	3	--	--	--	01	--	L .04	.04	050
82-09-28	1319	3	--	--	--	08	--	L .04	.05	L .001
82-10-21	1305	3	--	--	--	25	--	L .04	L .02	.002
82-11-23	1236	3	--	--	--	51	--	L .04	02	001
82-12-14	1300	3	--	--	--	86	--	L .04	L .02	001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-03-24	0917	3	--	L .002	004	.006	002	L .001	05	L .004
82-04-28	1540	3	--	005	018	015	.020	L .001	10	007
82-05-27	1504	3	--	L .002	002	.002	004	L .001	L .05	L .004
82-06-09	1539	3	--	L .002	017	018	067	L .001	.14	006
82-09-28	1319	3	--	L .002	-	--	--	L .001	.06	L .004
82-10-21	1305	3	-	L .002	004	001	002	L .001	L .05	L .004
82-11-23	1236	3	--	L .002	L .002	001	002	L .001	L .05	L .004
82-12-14	1300	3	--	L .002	.009	.001	.001	L .001	.05	L .004

STATION - 00MA05OB0001 — LAT. 49D 1M 53S LONG. 98D 16M 40S
PEMBINA RIVER AT WINDYGATES, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-03-24	0917	3	.008	--	--	L.001	L.001	L.001	L.001	L.002
82-04-28	1540	3	.002	--	--	L.001	.006	L.001	L.001	L.002
82-05-27	1504	3	.002	--	--	L.001	.007	L.001	L.001	L.002
82-06-09	1539	3	.001	--	--	L.001	.001	.001	L.001	L.002
82-09-28	1319	3	.002	--	--	L.001	.005	L.001	L.001	L.002
82-10-21	1305	3	.005	--	--	L.001	.005	L.001	L.001	L.002
82-11-23	1236	3	--	--	--	L.001	.001	L.001	L.001	L.002
82-12-14	1300	3	.002	--	--	L.001	L.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-03-24	0917	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-28	1540	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-27	1504	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-09	1539	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-28	1319	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-21	1305	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-23	1236	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-14	1300	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-03-24	0917	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-28	1540	3	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-05-27	1504	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-09	1539	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-28	1319	3	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-10-21	1305	3	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-11-23	1236	3	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-12-14	1300	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-03-24	0917	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-28	1540	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-27	1504	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-09	1539	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-28	1319	3	L.004	L.002	L.004	2	L.002	L.002	L.005	L.002
82-10-21	1305	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-23	1236	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-14	1300	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE L - LESS THAN DETECTION LIMIT — G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION — G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00MA05OC0001 LAT. 49D 0M 29S LONG. 97D 12M 38S
RED RIVER AT EMERSON, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-12	1224	140	.0	19.6	460.	566.	7.9	7.7	6.3	5.8
82-02-15	1241	140	.0	18.0	460.	478.	7.7	7.6	6.6	5.8
82-03-09	1153	140	.0	21.4	465.	483.	7.7	7.5	5.9	6.8
82-04-07	1047	140	.0	20.9	350.	341.	7.7	7.5	24.0	140.0
82-05-05	1152	140	14.0	22.3	500.	601.	8.0	7.8	132.0	100.0
82-06-02	1224	140	16.0	21.2	620.	603.	8.0	7.9	26.0	87.0
82-07-09	1105	140	20.5	24.3	640.	568.	7.6	7.8	95.0	275.0
82-08-12	1045	140	20.0	24.7	590.	556.	8.2	8.2	20.0	96.0
82-09-10	1030	140	23.0	21.4	500.	466.	8.4	8.4	11.0	54.0
82-10-14	1000	140	9.0	15.9	--	513.	8.2	8.0	--	140.0
82-11-10	0910	140	2.0	20.1	--	625.	8.3	8.2	--	26.0
82-12-07	0936	140	.0	12.8	--	660.	8.1	8.0	--	16.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-12	1224	140	30	6.	--	007	270	59.	--	13.4
82-02-15	1241	140	30	9		002	250.	43	--	12.7
82-03-09	1153	140	20	7	-	L 001	120	16	--	12.1
82-04-07	1047	140	50	246	-	010	70	22	--	9.0
82-05-05	1152	140	40.	281	-	020	90.	10	--	9.0
82-06-02	1224	140	40	188	--	010	80	12		7.9
82-07-09	1105	140	30	824.	-	020	400	150		5.9
82-08-12	1045	140	40	187	--	L 001	120	20	--	7.9
82-09-10	1030	140	30	83.	--	010	50	20	--	8.4
82-10-14	1000	140	50	394	-	.020	100	90	-	10.0
82-11-10	0910	140	30	48		030	18	12	-	11.3
82-12-07	0936	140	60	31.	--	030	6	6	-	12.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-12	1224	140	0	0	291	239.0	62.40	27.3	268.2	21.0
82-02-15	1241	140	0	0	268	220.0	57.30	25.0	246.0	13.0
82-03-09	1153	140	0	0	268	220.0	56.60	25.5	246.3	14.0
82-04-07	1047	140	0	0	140	115.0	37.30	14.7	153.7	11.0
82-05-05	1152	140	0	0	219	180.0	56.90	24.3	242.1	35.0
82-06-02	1224	140	0	0	262	215.0	68.00	29.0	289.2	26.0
82-07-09	1105	140	0	0	207	170.0	52.10	24.1	229.3	38.0
82-08-12	1045	140	0	0	244	200.0	58.90	25.8	253.3	31.0
82-09-10	1030	140	3	2.4	221	186.0	49.70	21.8	213.9	25.0
82-10-14	1000	140	0	0	195	160.0	49.60	23.5	220.6	33.0
82-11-10	0910	140	0	0	250	205.0	62.10	27.3	267.5	33.0
82-12-07	0936	140	0	0	294	241.0	73.30	34.5	325.1	38.0

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05OC0001 RED RIVER AT EMERSON, MANITOBA

LAT. 49D 0M 29S LONG. 97D 12M 38S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-12	1224	140	4.1	24.0	.17	44.	8.2	334.	--	.002
82-02-15	1241	140	3.8	9.8	.14	28.	8.8	278.	--	.010
82-03-09	1153	140	3.6	10 0	.14	30.	11.0	283.	--	.013
82-04-07	1047	140	7.3	10.0	.10	34.	13.0	196.	--	.035
82-05-05	1152	140	7.5	40.0	.12	84.	14.0	370.	--	.009
82-06-02	1224	140	5.5	28.0	.16	86.	12.0	384.	--	.005
82-07-09	1105	140	5.9	39.0	.20	76	13.0	350	--	.011
82-08-12	1045	140	5.9	30.0	.17	63.	15.0	350.	--	.006
82-09-10	1030	140	4.7	25.0	20	40.	9.2	287	--	.002
82-10-14	1000	140	5.8	40.0	.17	51.	11 0	310.	--	.009
82-11-10	0910	140	5.9	34.0	.22	94.	9.6	389	--	.003
82-12-07	0936	140	5.9	41.0	.20	109.	10.0	456.	--	.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-01	2300	401	.100	--	--	--	--	.80	.12	.92
82-01-02	2300	401	096	--	--	--	-	77	12	.89
82-01-03	2300	401	.100	--	--	--	--	.81	.11	.92
82-01-04	2300	401	.094	--	--	--	--	79	.13	.92
82-01-05	2300	401	.071	-	--	--	--	71	.14	.85
	2301	401	.085	--	--	--	--	76	13	.89
	2302	401	.080	-	--	--	--	75	.11	.86
	2303	401	.080	-	--	--	--	77	.13	.90
	2304	401	.080	--	--	-	--	.78	09	.87
	2305	401	.079	-	-	--	--	.75	10	.85
82-01-06	2300	401	.240	-	--	--	--	1 00	78	1 78
82-01-07	2300	401	.068	-	--	-	--	89	.10	99
82-01-08	2300	401	064	--	-	-	--	87	12	99
82-01-09	2300	401	.066	-	--	--	--	.69	1 01	0.70
82-01-10	2300	401	071	-	-	--	--	93	09	1.02
82-01-11	2300	401	073	-		-	--	92	10	1.02
82-01-12	1224	140	.062	039	023	16	.78	81	09	90
	2300	401	059	-	-	-	-	88	10	.98
82-01-13	2300	401	.050	-	-	-	-	77	10	87
82-01-14	2300	401	.057		-	-	-	.81	11	92
82-01-15	2300	401	.060	-		-	-	82	11	93
82-01-16	2300	401	063			--	-	86	09	.95
82-01-17	2300	401	.063			-	--	.82	08	90
82-01-18	2300	401	.063		-	-	-	.82	09	91
82-01-19	2300	401	060	--	-	--	--	80	09	89
	2301	401	063	-		--	-	84	08	92
	2302	401	063	--	-	-	--	.86	08	94
	2303	401	.055	--		--	-	83	07	90
	2304	401	060	-		-	-	83	08	91
	2305	401	.060	-		-	--	84	07	91
82-01-20	2300	401	048	-	-	--	--	88	10	.98
82-01-21	2300	401	.051		--	--	--	86	09	95
82-01-22	2300	401	051	--	--	--	--	.84	10	94
82-01-23	2300	401	.051	-	-	--	--	86	10	96
82-01-24	2300	401	.057	-	--	--	--	90	12	1 02
82-01-25	2300	401	050	--	--	--	--	83	10	93
82-01-26	2300	401	.055	--	-	--	--	85	.10	95
	2301	401	062	-	-	--	--	87	.08	95
	2302	401	.060	--	--	--	--	.90	.09	99
	2303	401	.062	--	--	-	--	90	09	99
	2304	401	063	-	--	--	--	89	09	98
	2305	401	.065	--	--	-	-	92	12	1.04
82-01-27	2300	401	.055	-	--	--	--	83	11	94

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05OC0001 RED RIVER AT EMERSON, MANITOBA LAT. 49D 0M 29S LONG. 97D 12M 38S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-28	2300	401	.055	--	--	--	--	.85	.10	.95
82-01-29	2300	401	.063	--	--	--	--	.87	.09	.96
82-01-30	2300	401	.064	--	--	--	--	.89	.10	.99
82-01-31	2300	401	.060	--	--	--	--	.85	.11	.96
82-02-01	2300	401	.059	--	--	--	--	.83	.09	.92
82-02-02	2300	401	.049	--	--	--	--	.74	.08	.82
82-02-03	2300	401	.066	--	--	--	--	.88	.09	.97
82-02-04	2300	401	.048	--	--	--	--	.79	.09	.88
82-02-05	2300	401	.064	--	--	--	--	.88	.09	.97
82-02-06	2300	401	.070	--	--	--	--	.93	.11	1.04
82-02-07	2300	401	.073	--	--	--	--	.88	.11	.99
82-02-08	2300	401	.069	--	--	--	--	.90	.11	1.01
82-02-09	2300	401	.072	--	--	--	--	.93	.10	1.03
	2301	401	.077	--	--	--	--	.96	.12	1.08
	2302	401	.087	--	--	--	--	.95	.11	1.06
	2303	401	.080	--	--	--	--	.96	.10	1.06
	2304	401	.078	--	--	--	--	.96	.10	1.06
	2305	401	.076	--	--	--	--	.96	.11	1.07
82-02-10	2300	401	.063	--	--	--	--	.83	.13	.96
82-02-11	2300	401	.058	--	--	--	--	.79	.09	.88
82-02-12	2300	401	.063	--	--	--	--	.84	.13	.97
82-02-13	2300	401	.064	--	--	--	--	.85	.10	.95
82-02-14	2300	401	.049	--	--	--	--	.78	.12	.90
82-02-15	1241	140	.064	.045	.019	.33	.95	.94	.08	1.02
	2300	401	.055	--	--	--	--	.81	.12	.93
82-02-16	2300	401	.057	--	--	--	--	.86	.11	.97
82-02-17	2300	401	.061	--	--	--	--	1.10	.12	1.22
82-02-18	2300	401	.059	--	--	--	--	.89	.12	1.01
82-02-19	2300	401	.062	--	--	--	--	.90	.10	1.00
82-02-20	2300	401	.062	--	--	--	--	.94	.09	1.03
82-02-21	2300	401	.050	--	--	--	--	.87	.12	.99
82-02-22	2300	401	.065	--	--	--	--	.93	.09	1.02
82-02-23	2300	401	.062	--	--	--	--	.93	.10	1.03
	2301	401	.065	--	--	--	--	.86	.10	.96
	2302	401	.070	--	--	--	--	.87	.10	.97
	2303	401	.067	--	--	--	--	.88	.10	.98
	2304	401	.074	--	--	--	--	.87	.11	.98
	2305	401	.080	--	--	--	--	.91	.15	1.06
82-02-24	2300	401	.083	--	--	--	--	.85	.12	.97
82-02-25	2300	401	.060	--	--	--	--	.95	.11	1.06
82-02-26	2300	401	.068	--	--	--	--	.80	.09	.89
82-02-27	2300	401	.067	--	--	--	--	.86	.11	.97
82-02-28	2300	401	.067	--	--	--	--	.84	.12	.96
82-03-01	2300	401	.067	--	--	--	--	.84	.11	.95
82-03-02	2300	401	.093	--	--	--	--	.81	.12	.93
82-03-03	2300	401	.055	--	--	--	--	.85	.12	.97
82-03-04	2300	401	.064	--	--	--	--	.90	.09	.99
82-03-05	2300	401	.110	--	--	--	--	.83	.10	.93
82-03-06	2300	401	.046	--	--	--	--	.76	.10	.86
82-03-07	2300	401	.046	--	--	--	--	.83	.08	.91
82-03-08	2300	401	.055	--	--	--	--	.88	.08	.96
82-03-09	1153	140	.072	.049	.023	.33	.91	.96	.05	1.01
	2300	401	.064	--	--	--	--	.92	.10	1.02
	2301	401	.076	--	--	--	--	.94	.09	1.03
	2302	401	.073	--	--	--	--	.93	.09	1.02
	2303	401	.073	--	--	--	--	.95	.08	1.03
	2304	401	.073	--	--	--	--	.96	.08	1.04
	2305	401	.074	--	--	--	--	.96	.09	1.05
82-03-10	2300	401	.058	--	--	--	--	.86	.09	.95
82-03-11	2300	401	.071	--	--	--	--	.90	.12	1.02
82-03-12	2300	401	.071	--	--	--	--	.89	.13	1.02
82-03-13	2300	401	.064	--	--	--	--	.84	.10	.94
82-03-14	2300	401	.068	--	--	--	--	.86	.11	.97
82-03-15	2300	401	.065	--	--	--	--	.82	.12	.94
82-03-16	2300	401	.072	--	--	--	--	.85	.11	.96
	2301	401	.075	--	--	--	--	.91	.09	1.00
	2302	401	.072	--	--	--	--	.94	.09	1.03
	2303	401	.071	--	--	--	--	.91	.09	1.00
	2304	401	.073	--	--	--	--	.92	.09	1.01
	2305	401	.072	--	--	--	--	.92	.09	1.01
82-03-17	2300	401	.071	--	--	--	--	1.00	.10	1.10
82-03-18	2300	401	.083	--	--	--	--	.92	.12	1.04
82-03-19	2300	401	.083	--	--	--	--	.92	.12	1.04
82-03-20	2300	401	.079	--	--	--	--	.88	.10	.98
82-03-21	2300	401	.085	--	--	--	--	.92	.12	1.04
82-03-22	2300	401	.130	--	--	--	--	1.00	.26	1.26
82-03-23	2300	401	.070	--	--	--	--	.92	.06	.98
82-03-24	2300	401	.350	--	--	--	--	1.50	.28	1.78
82-03-25	2300	401	.290	--	--	--	--	1.70	.32	2.02
82-03-26	2300	401	.420	--	--	--	--	1.90	.29	2.19
82-03-27	2300	401	.330	--	--	--	--	1.90	.30	2.20
82-03-28	2300	401	.350	--	--	--	--	1.70	.37	2.07
82-03-29	2300	401	.390	--	--	--	--	1.90	.33	2.23
82-03-30	2300	401	.370	--	--	--	--	1.90	.30	2.20
	2301	401	.350	--	--	--	--	1.90	.36	2.26
	2302	401	.350	--	--	--	--	1.90	.35	2.25

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA050C0001
RED RIVER AT EMERSON, MANITOBA

LAT. 49D 0M 29S LONG. 97D 12M 38S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-30	2303	401	.360	--	--	--	--	1.90	.36	2.26
	2304	401	.380	--	--	--	--	1.90	.34	2.24
	2305	401	.370	--	--	--	--	1.90	.36	2.26
82-04-07	1047	140	.500	.280	.220	.21	2.70	2.80	.85	3.65
	2300	401	.330	--	--	--	--	2.90	1.10	4.00
82-04-08	2300	401	.650	--	--	--	--	2.70	1.30	4.00
82-04-09	2300	401	.480	--	--	--	--	2.70	1.10	3.80
82-04-10	2300	401	.460	--	--	--	--	2.70	.97	3.67
82-04-11	2300	401	.500	--	--	--	--	2.70	1.10	3.80
82-04-12	2300	401	1.000	--	--	--	--	2.90	1.80	4.70
82-04-13	2300	401	650	--	--	--	--	3.00	1.40	4.40
	2301	401	.340	--	--	--	--	2.60	.62	3.22
	2302	401	.380	--	--	--	--	2.90	.55	3.45
	2303	401	.430	--	--	--	--	3.00	.82	3.82
	2304	401	.450	--	--	--	--	3.00	1.20	4.20
	2305	401	.450	--	--	--	--	3.00	.97	3.97
82-04-14	2300	401	.700	--	--	--	--	2.70	1.50	4.20
82-04-15	2300	401	500	--	--	--	--	2.40	1.40	3.80
82-04-16	2300	401	650	--	--	--	--	2.70	1.60	4.30
82-04-17	2300	401	.440	--	--	--	--	2.20	1.30	3.50
82-04-18	2300	401	.750	--	--	--	--	2.50	1.50	4.00
82-04-19	2300	401	480	--	--	--	--	2.10	1.10	3.20
	2301	401	.580	--	--	--	--	2.90	.80	3.70
	2302	401	.480	--	--	--	--	2.90	.91	3.81
	2303	401	580	--	--	--	--	2.90	1.00	3.90
	2304	401	.460	--	--	--	--	3.10	1.00	4.10
	2305	401	.450	--	--	--	--	2.90	86	3.76
82-04-21	2300	401	420	--	--	--	--	1.70	.79	2.49
82-04-22	2300	401	330	--	--	--	--	1.80	.54	2.34
82-04-23	2300	401	.300	--	--	--	--	1.80	47	2.27
82-04-24	2300	401	450	--	--	--	--	1.80	1.00	2.80
82-04-25	2300	401	280	--	--	--	--	1.60	.45	2.05
82-04-26	2300	401	.270	--	--	--	--	1.60	.36	1.96
82-04-27	2300	401	260	--	--	--	--	1.60	51	2.11
	2301	401	260	--	--	--	--	1.60	.41	2.01
	2302	401	.260	--	--	--	--	1.50	.41	1.91
	2303	401	280	--	--	--	--	1.50	42	1.92
	2304	401	260	--	--	--	--	1.50	40	1.90
	2305	401	270	--	--	--	--	1.60	.35	1.95
82-04-28	2300	401	270	--	--	--	--	1.40	.54	1.94
82-04-29	2300	401	.230	--	--	--	--	1.40	.54	1.94
82-04-30	2300	401	.230	--	--	--	--	1.30	53	1.83
82-05-01	2300	401	410	--	--	--	--	1.10	74	1.84
82-05-02	2300	401	310	--	--	--	--	1.00	.68	1.68
82-05-03	2300	401	360	--	--	--	--	97	.80	1.77
82-05-04	2300	401	.410	--	--	--	--	94	99	1.93
	2301	401	430	--	--	--	--	96	99	1.95
	2302	401	430	--	--	--	--	97	1.00	1.97
	2303	401	.380	--	--	--	--	.96	96	1.92
	2304	401	400	--	--	--	--	.95	.96	1.91
	2305	401	.420	--	--	--	--	.95	.93	1.88
82-05-05	1152	140	380	120	260	36	91	95	82	1.77
	2300	401	400	--	--	--	--	.99	1.10	2.09
82-05-06	2300	401	440	--	--	--	--	90	1.30	2.20
82-05-07	2300	401	450	--	--	--	--	90	1.20	2.10
82-05-08	2300	401	410	--	--	--	--	.90	1.20	2.10
82-05-09	2300	401	420	--	--	--	--	97	1.20	2.17
82-05-10	2300	401	430	--	--	--	--	1.10	1.50	2.60
82-05-11	2300	401	380	--	--	--	--	1.20	1.20	2.40
82-05-12	2300	401	.310	--	--	--	--	.99	1.10	2.09
82-05-13	2300	401	280	--	--	--	--	88	.92	1.80
82-05-14	2300	401	.280	--	--	--	--	88	.81	1.69
82-05-15	2300	401	320	--	--	--	--	.90	92	1.82
82-05-16	2300	401	800	--	--	--	--	1.10	1.90	3.00
82-05-17	2300	401	650	--	--	--	--	1.10	2.10	3.20
82-05-18	2300	401	.600	--	--	--	--	1.20	1.90	3.10
	2301	401	600	--	--	--	--	1.10	2.00	3.10
	2302	401	.550	--	--	--	--	1.10	1.80	2.90
	2303	401	600	--	--	--	--	1.10	1.70	2.80
	2304	401	.550	--	--	--	--	1.20	1.70	2.90
	2305	401	550	--	--	--	--	1.20	1.90	3.10
82-05-19	2300	401	.520	--	--	--	--	1.00	1.50	2.50
82-05-20	2300	401	.440	--	--	--	--	1.10	98	2.08
82-05-21	2300	401	.370	--	--	--	--	1.10	.77	1.87
82-05-22	2300	401	.370	--	--	--	--	1.10	.68	1.78
82-05-23	2300	401	.350	--	--	--	--	1.00	.69	1.69
82-05-24	2300	401	.320	--	--	--	--	1.10	.62	1.72
82-05-25	2300	401	.330	--	--	--	--	1.00	.73	1.73
	2301	401	550	--	--	--	--	1.10	1.40	2.50
	2302	401	.550	--	--	--	--	1.10	1.50	2.60
	2303	401	550	--	--	--	--	1.10	1.50	2.60
	2304	401	500	--	--	--	--	1.10	1.60	2.70
	2305	401	.500	--	--	--	--	1.10	1.50	2.60
82-05-26	2300	401	.600	--	--	--	--	.85	1.20	2.05
82-05-27	2300	401	.420	--	--	--	--	1.00	.71	1.71
82-05-28	2300	401	.340	--	--	--	--	1.00	.80	1.80

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA050C0001
RED RIVER AT EMERSON, MANITOBA

LAT. 49D 0M 29S LONG. 97D 12M 38S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-05-29	2300	401	.310	--	--	--	--			
82-05-30	2300	401	.290	--	--	--	--	.96	.75	1.71
82-05-31	2300	401	.290	--	--	--	--	.92	.85	1.77
82-06-01	2300	401	.320	--	--	--	--	.88	.61	1.49
	2301	401	.380	--	--	--	--	.90	.74	1.64
	2302	401	.350	--	--	--	--	.82	.80	1.62
	2303	401	.390	--	--	--	--	.81	.71	1.52
	2304	401	.410	--	--	--	--	.82	.69	1.51
	2305	401	.550	--	--	--	--	.83	.93	1.76
82-06-02	1224	140	.290	.094	.196	.19	.71	.79	1.20	1.99
	2300	401	.950	--	--	--	--	.77	.53	1.30
82-06-03	2300	401	.600	--	--	--	--	.97	3.60	4.57
82-06-04	2300	401	.290	--	--	--	--	.89	2.20	3.09
82-06-05	2300	401	.270	--	--	--	--	.82	.83	1.65
82-06-06	2300	401	.290	--	--	--	--	.91	.70	1.61
82-06-07	2300	401	.350	--	--	--	--	.87	.76	1.63
82-06-08	2300	401	.550	--	--	--	--	.85	.44	1.29
82-06-09	2300	401	.850	--	--	--	--	.81	.83	1.64
82-06-10	2300	401	.470	--	--	--	--	.80	2.80	3.60
82-06-11	2300	401	.360	--	--	--	--	.93	1.70	2.63
82-06-12	2300	401	.310	--	--	--	--	.90	1.20	2.10
82-06-13	2300	401	.290	--	--	--	--	.77	1.20	1.97
82-06-14	2300	401	.320	--	--	--	--	.77	.89	1.66
82-06-15	2300	401	.380	--	--	--	--	.77	1.10	1.87
	2301	401	.350	--	--	--	--	.69	1.40	2.09
	2302	401	.350	--	--	--	--	.58	1.10	1.68
	2303	401	.380	--	--	--	--	.59	.99	1.58
	2304	401	.460	--	--	--	--	.59	.93	1.52
	2305	401	.410	--	--	--	--	.58	1.10	1.68
82-06-16	2300	401	.440	--	--	--	--	.60	.93	1.53
82-06-17	2300	401	.360	--	--	--	--	.70	1.00	1.70
82-06-18	2300	401	.350	--	--	--	--	.71	.89	1.60
82-06-19	2300	401	.360	--	--	--	--	.70	.82	1.52
82-06-20	2300	401	.550	--	--	--	--	.70	.88	1.58
82-06-21	2300	401	.320	--	--	--	--	.70	2.40	3.10
82-06-22	2300	401	.370	--	--	--	--	.70	.84	1.54
	2301	401	.350	--	--	--	--	.73	.71	1.44
	2302	401	.370	--	--	--	--	.70	.85	1.55
	2303	401	.450	--	--	--	--	.74	.89	1.63
	2304	401	.400	--	--	--	--	.73	1.00	1.73
	2305	401	.340	--	--	--	--	.74	.88	1.62
82-06-23	2300	401	.280	--	--	--	--	.73	.83	1.56
82-06-24	2300	401	.240	--	--	--	--	.86	.70	1.56
82-06-25	2300	401	.240	--	--	--	--	.73	.56	1.29
82-06-26	2300	401	.180	--	--	--	--	.67	.58	1.25
82-06-27	2300	401	.190	--	--	--	--	.65	.46	1.11
82-06-28	2300	401	.190	--	--	--	--	.69	.50	1.19
82-06-29	2300	401	.180	--	--	--	--	.82	.79	1.61
	2301	401	.420	--	--	--	--	.87	.39	1.26
	2302	401	.330	--	--	--	--	.91	.63	1.54
	2303	401	.360	--	--	--	--	.90	.64	1.54
	2304	401	.300	--	--	--	--	.90	.65	1.55
	2305	401	.330	--	--	--	--	.89	.61	1.50
82-06-30	2300	401	.190	--	--	--	--	.88	.59	1.47
82-07-01	2300	401	.200	--	--	--	--	.77	.52	1.29
82-07-02	2300	401	.180	--	--	--	--	.82	.49	1.31
82-07-03	2300	401	.480	--	--	--	--	.66	.42	1.08
82-07-04	2300	401	.240	--	--	--	--	.85	1.20	2.05
82-07-05	2300	401	.250	--	--	--	--	.72	.59	1.31
82-07-06	2300	401	.500	--	--	--	--	.73	.61	1.34
82-07-07	2300	401	.400	--	--	--	--	.98	.77	1.75
82-07-08	2300	401	.430	--	--	--	--	.86	1.10	1.96
82-07-09	1105	140	.700	.120	.580	.56	.86	.90	1.40	2.30
	2300	401	.480	--	--	--	--	1.20	2.00	3.20
82-07-10	2300	401	.460	--	--	--	--	1.00	1.40	2.40
82-07-11	2300	401	.320	--	--	--	--	.88	1.10	1.98
82-07-12	2300	401	.270	--	--	--	--	.84	.83	1.67
82-07-13	2300	401	.290	--	--	--	--	.87	.69	1.56
	2301	401	.400	--	--	--	--	.81	.69	1.50
	2302	401	.430	--	--	--	--	.81	.94	1.75
	2303	401	.390	--	--	--	--	.83	1.10	1.93
	2304	401	.360	--	--	--	--	.84	1.00	1.84
	2305	401	.380	--	--	--	--	.83	.91	1.74
82-08-12	1045	140	.430	.120	.310			.84	.96	1.80
82-09-10	1030	140	.140	.044	.100	.22	.88	1.00	.78	1.80
82-10-14	1000	140	.420	.140	.280	L.01	.52	.55	.36	.91
82-11-10	0910	140	.170	.094	.080	.90	1.40	1.60	.59	2.20
82-12-07	0936	140	.150	.120	.030	.12	.72	.74	.31	1.00
						.29	.94	.93	.24	1.20

DETAILED WATER QUALITY DATA 1982
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STATION - 00MA050C0001 LAT. 49D 0M 29S LONG. 97D 12M 38S
RED RIVER AT EMERSON, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-12	1224	140	L .1	--	3.5	.81	4.3	.13 05D	.0010	L.0005
82-02-15	1241	140	L .1	--	12.0	.80	12.8	.12 05D	.0010	L.0005
82-03-09	1153	140	L .1	--	12.0	.39	12.4	.15 05D	.0010	L.0005
82-04-07	1047	140	.3	--	8.2	6.70	14.9	.23 05D	.0035	L.0005
82-05-05	1152	140	L .1	--	9.6	7.10	16.7	.18 05D	.0029	.0008
82-06-02	1224	140	L .1	--	13.0	6.20	19.2	.17 05D	.0024	L.0005
82-07-09	1105	140	.1	--	9.4	16.00	25.4	.16 05D	.0036	L.0005
82-08-12	1045	140	L .1	--	13.0	7.80	20.8	.17 05D	.0040	L.0005
82-09-10	1030	140	L .1	--	10.0	2.80	12.8	.13 05D	L.0005	L.0005
82-10-14	1000	140	L .1	--	10.0	9.60	19.6	.16 05D	.0032	L.0005
82-11-10	0910	140	.1	--	13.0	2.60	15.6	.14 05D	.0015	L.0005
82-12-07	0936	140	L .1	--	13.0	1.60	14.6	.20 05D	.0018	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-12	1224	140	--	--	--	.01	--	L.04	.05	L.001
82-02-15	1241	140	--	--	--	.01	--	L.04	.03	.001
82-03-09	1153	140	--	--	--	.02	--	L.04	L.02	.002
82-04-07	1047	140	--	--	--	.03	--	.04	.04	.030
82-05-05	1152	140	--	--	--	L.01	--	L.04	.03	.027
82-06-02	1224	140	--	--	--	L.01	--	L.04	.02	.023
82-07-09	1105	140	--	--	--	L.01	--	.04	.13	.110
82-08-12	1045	140	--	--	--	L.01	--	L.04	.08	.021
82-09-10	1030	140	--	--	--	L.01	--	L.04	.06	.009
82-10-14	1000	140	--	--	--	L.01	--	L.04	.05	.023
82-11-10	0910	140	--	--	--	L.01	--	L.04	.04	.004
82-12-07	0936	140	--	--	--	.01	--	.04	.03	.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-12	1224	140		L.002	.002	L.001	.004	L.001	.05	L.004
82-02-15	1241	140		L.002	.002	.002	.003	L.001	.07	L.004
82-03-09	1153	140	--	L.002	L.002	.008	L.001	L.001	.10	L.004
82-04-07	1047	140	--	.003	.013	.012	.017	.006	.07	.008
82-05-05	1152	140		L.002	.010	.009	.023	L.001	.12	L.004
82-06-02	1224	140	--	L.002	.006	.010	.053	L.001	.09	.076
82-07-09	1105	140	--	.010	.039	.033	.063	.001	.19	.014
82-08-12	1045	140	--	.003	.016	.010	.021	L.001	.12	L.004
82-09-10	1030	140	--	L.002	.011	.006	.016	L.001	.09	L.004
82-10-14	1000	140	--	.004	.018	.012	.033	L.001	.13	.004
82-11-10	0910	140	--	L.002	.003	.003	.006	L.001	.07	L.004
82-12-07	0936	140	--	L.002	L.002	.001	.004	L.001	.06	L.004

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STATION - 00MA050C0001 LAT. 49D 0M 29S LONG. 97D 12M 38S
RED RIVER AT EMERSON, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-12	1224	140	.001	--	--	L .001	.008	L .001	L .001	L .002
82-02-15	1241	140	.002	--	--	L .001	.004	L .001	L .001	L .002
82-03-09	1153	140	.001	--	--	L .001	.005	L .001	L .001	L .002
82-04-07	1047	140	.003	--	--	L .001	.008	L .001	L .001	L .002
82-05-05	1152	140	.001	--	--	L .001	.004	L .001	L .001	L .002
82-06-02	1224	140	.001	--	--	L .001	.002	.001	L .001	L .002
82-07-09	1105	140	.001	--	--	L .001	.010	.020	L .001	L .002
82-08-12	1045	140	.004	--	--	L .001	.003	.001	L .001	L .002
82-09-10	1030	140	.003	--	--	L .001	.004	L .001	L .001	L .002
82-10-14	1000	140	.003	--	--	L .001	.008	L .001	L .001	L .002
82-11-10	0910	140	.005	--	--	L .001	.005	L .001	L .001	L .002
82-12-07	0936	140	.005	--	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-12	1224	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-02-15	1241	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-03-09	1153	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-07	1047	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-05	1152	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-02	1224	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-09	1105	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-12	1045	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-10	1030	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-14	1000	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-10	0910	140	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-12	1224	140	L .002	L .0020	L .001	L .003	L .002	L .2	.030	L .009
82-02-15	1241	140	L .002	L .0020	L .001	L .003	L .002	L .2	L .004	L .009
82-03-09	1153	140	L .002	L .0020	L .001	L .003	L .002	L .2	.020	L .009
82-04-07	1047	140	L .002	L .0020	L .001	L .003	L .002	L .2	.100	L .009
82-05-05	1152	140	L .002	L .0020	L .001	L .003	L .002	L .2	.100	L .009
82-06-02	1224	140	L .002	L .0020	L .001	L .003	L .002	L .2	.010	L .004
82-07-09	1105	140	L .002	L .0020	L .001	L .003	L .002	L .2	.100	L .009
82-08-12	1045	140	L .002	L .0020	L .001	L .003	L .002	L .2	.100	L .009
82-09-10	1030	140	L .002	L .0020	L .001	L .003	L .002	L .2	.010	L .004
82-10-14	1000	140	L .002	L .0020	L .001	L .003	L .002	L .2	.010	L .009
82-11-10	0910	140	L .002	L .0020	L .001	L .003	L .002	L .2	.040	L .009
82-12-07	0936	140	--	--	--	--	--	L .2	.090	L .009

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MANITOBA

STATION - 00MA050C0001 LAT. 49D 0M 29S LONG. 97D 12M 38S
RED RIVER AT EMERSON, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-12	1224	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-02-15	1241	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-03-09	1153	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-04-07	1047	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-05-05	1152	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-06-02	1224	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-07-09	1105	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-08-12	1045	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-09-10	1030	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-10-14	1000	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-11-10	0910	140	L .004	L .002	L .004	L .2	L .002	L .002	L .005	L .002
82-12-07	0936	140	L .004	L .002	L .004	L .2	--	--	--	--

FOOTNOTE: L LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05OD0001
ROSEAU RIVER AT GARDENTON, MANITOBA

LAT. 49D 5M 16S LONG. 96D 41M 15S

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-13	1535	3	.0	19.6	630.	644.	7.4	7.2	3.1	2.2
82-02-19	1502	3	.0	21.0	710.	691.	7.3	7.0	2.5	7.0
82-03-16	1555	3	.0	20.0	640.	560.	7.2	7.0	3.3	6.6
82-04-20	1543	3	6.0	23.1	250.	232.	7.7	7.5	19.0	8.2
82-05-10	1511	3	9.0	18.6	310.	294.	7.7	7.7	4.0	3.0
82-06-01	1454	3	14.0	22.8	370.	376.	8.0	7.7	5.0	3.8
82-07-14	1110	3	21.5	23.8	410.	371.	7.8	7.7	3.0	6.2
82-08-17	1150	3	22.0	23.9	342.	309.	8.0	8.0	2.1	7.9
82-09-23	0955	3	13.5	21.1	300.	344.	8.1	8.3	1.7	4.4
82-10-08	1147	3	8.5	19.5	360.	359.	8.2	8.0	--	8.2
82-11-29	1143	3	.0	21.3	--	485.	7.6	7.4	.2	2.8
82-12-17	1215	3	.0	19.5	--	557.	7.8	7.3	3.8	3.5

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-13	1535	3	80	2	--	.001	4	12		4.6
82-02-19	1502	3	70	14 01R	--	.002 171	7 02U	2 12U		1.3
82-03-16	1555	3	60	7	--	.004	5	12	--	2.0
82-04-20	1543	3	60	19	--	.002	4	2	--	9.9
82-05-10	1511	3	70	6	--	.002	18	10		8.1
82-06-01	1454	3	80	8	--	.006	17	11	--	7.7
82-07-14	1110	3	80	12		.004	90	18	--	6.8
82-08-17	1150	3	120	13	--	.006	220	180	--	6.5
82-09-23	0955	3	60	3		.003	200	22	--	8.9
82-10-08	1147	3	80	13		.008	100	80	--	11.0
82-11-29	1143	3	60	4		.001	34	12		9.5
82-12-17	1215	3	60	3		.005	12	2	--	8.5

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-13	1535	3	0	0	432	354.0	91.10	35.6	374.0	10.0
82-02-19	1502	3	0	0	475	390.0	96.10	38.8	399.7	12.0
82-03-16	1555	3	0	0	347	285.0	70.20	28.3	291.8	31.0
82-04-20	1543	3	0	0	117	96.0	30.00	10.4	117.7	2.3
82-05-10	1511	3	0	0	171	140.0	39.70	14.1	157.2	3.0
82-06-01	1454	3	0	0	232	190.0	52.90	17.8	205.4	4.2
82-07-14	1110	3	0	0	238	195.0	52.50	19.9	213.0	4.8
82-08-17	1150	3	0	0	201	165.0	43.50	18.0	182.7	4.3
82-09-23	0955	3	0	0	234	192.0	49.00	19.8	203.9	5.7
82-10-08	1147	3	0	0	213	175.0	47.00	18.8	194.8	6.0
82-11-29	1143	3	0	0	317	260.0	70.30	27.6	289.2	6.0
82-12-17	1215	3	0	0	390	320.0	81.50	33.0	339.4	8.7

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-13	1535	3	2.6	6.1	.20	20	24.0	402	--	.003
82-02-19	1502	3	2.7	4.6	.13	17.	28.0	433	--	.006
82-03-16	1555	3	5.8	44.0	.13	20	21.0	391	--	.005
82-04-20	1543	3	4.9	3.5	.12	15	8.7	132		.014
82-05-10	1511	3	3.9	3.0	.08	15	8.6	171	--	.006
82-06-01	1454	3	2.4	2.7	.12	12	10.0	216	--	.007
82-07-14	1110	3	1.3	1.7	.15	9	11.0	218	--	.008
82-08-17	1150	3	1.0	1.8	.10	9	11.0	188	--	.006
82-09-23	0955	3	1.6	1.8	.13	8.	5.6	207.	--	.005
82-10-08	1147	3	2.8	3.2	.12	16	11.0	210		.003
82-11-29	1143	3	2.2	3.8	.18	16.	18.0	300	--	.004
82-12-17	1215	3	3.4	4.0	.12	20	19.0	362.	--	.006

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05OD0001 LAT. 49D 5M 16S LONG. 96D 41M 15S
ROSEAU RIVER AT GARDENTON, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-13	1535	3	.029	.025	.004	.06	.87	.87	L.01	Q.88
82-02-19	1502	3	.140 06R	.069 03V	.071 01R	L.01 10V	1.00 51V	1.10 51R	.24 02R	--
82-03-16	1555	3	.140	.080	060	.22	1.20	1.20	.12	1.32
82-04-20	1543	3	.140	.086	.054	49	1.10	1.10	19	1.29
82-05-10	1511	3	053	.041	012	.01	.70	.69	.08	.77
82-06-01	1454	3	.110	.085	025	.05	.84	.82	.11	.93
82-07-14	1110	3	.090	.055	035	L.01	.91	.97	L.01	Q.98
82-08-17	1150	3	050	--	--	L.01	91	.90	.11	1.00
82-09-23	0955	3	036	.032	L.006	L.01	.69	.69	.07	.76
82-10-08	1147	3	060	.030	.030	L.01	.58	.59	.10	69
82-11-29	1143	3	029	.019	.010	.05	.71	.71	L.01	Q.72
82-12-17	1215	3	.043	023	.020	.14	1.00	.99	.06	1.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-13	1535	3	L.1	--	24.0	.25	24.3	.17 05D	.0006	L.0005
82-02-19	1502	3	L.1 06W	--	21.0 04R	1.70 02R	--	.18 05V	.0014 04V	L.0005 02V
82-03-16	1555	3	1.0	--	16.0	1.10	17.1	.16 05D	0013	L.0005
82-04-20	1543	3	L.1	--	12.0	1.70	13.7	.22	0013	L.0005
82-05-10	1511	3	L.1	--	17.0	67	17.7	16 05D	.0010	L.0005
82-06-01	1454	3	L.1		23.0	89	23.9	19 05D	0009	L.0005
82-07-14	1110	3	L.1	-	20.0	79	20.8	17 05D	.0011	L.0005
82-08-17	1150	3	L.1	--	29.0	84	29.8	.19 05D	0020	L.0005
82-09-23	0955	3	L.1	--	19.0	50	19.5	.12 05D	.0011	L.0005
82-10-08	1147	3	L.1	-	19.0	1.10	20.1	.14 05D	.0008	L.0005
82-11-29	1143	3	L.1	-	22.0	30	22.3	.12 05D	.0005	L.0005
82-12-17	1215	3	L.1		26.0	48	26.5	.12 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-13	1535	3			-	.37	-	.29	03	L.001
82-02-19	1502	3			--	1.70 04T	-	2.20 04T	02 11W	L.001 20W
82-03-16	1555	3	-		--	60	-	.27	04	L.001
82-04-20	1543	3	--		-	01	--	12	L.02	.004
82-05-10	1511	3	-		--	L.01	-	07	L.02	L.001
82-06-01	1454	3		-	--	02	--	13	L.02	001
82-07-14	1110	3			--	02	-	09	.02	.002
82-08-17	1150	3	-	-	-	01	-	12	08	002
82-09-23	0955	3	-	--	--	01	--	.05	10	001
82-10-08	1147	3	--	--	--	04	--	.11	L.02	.001
82-11-29	1143	3	--	-	--	04	--	.13	02	L.001
82-12-17	1215	3	--	--	--	08		14	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-13	1535	3	--	L.002	003	.001	.010	L.001	05	L.004
82-02-19	1502	3	--	L.002 20W	.003 20W	002 20W	.004 20W	L.001 20W	09 20W	L.004 20W
82-03-16	1555	3	--	L.002	L.002	.001	L.001	L.001	07	L.004
82-04-20	1543	3	--	L.002	L.002	009	002	L.001	L.05	L.004
82-05-10	1511	3	--	L.002	L.002	L.001	001	L.001	L.05	L.004
82-06-01	1454	3	-	L.002	L.002	.001	.009	L.001	L.05	L.004
82-07-14	1110	3	--	L.002	.003	.001	.007	L.001	.05	L.004
82-08-17	1150	3	--	L.002	L.002	.002	.009	L.001	L.05	L.004
82-09-23	0955	3	--	L.002	L.002	.002	.004	L.001	L.05	L.004
82-10-08	1147	3	-	L.002	008	.002	.007	L.001	05	L.004
82-11-29	1143	3	--	L.002	L.002	.002	.001	L.001	L.05	L.004
82-12-17	1215	3	-	L.002	.002	.002	.002	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05OD0001 LAT. 49D 5M 16S LONG. 96D 41M 15S
ROSEAU RIVER AT GARDENTON, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-13	1535	3	.001	--	--	L .001	.001	L .001	L .001	L .002
82-02-19	1502	3	.005 35H	--	--	L .001 11R	.002 75R	L .001 70R	L .001 30R	L .002 10R
82-03-16	1555	3	.002	--	--	L .001	.002	L .001	L .001	L .002
82-04-20	1543	3	.006	--	--	L .001	.003	L .001	L .001	L .002
82-05-10	1511	3	.003	--	--	L .001	.003	L .001	L .001	L .002
82-06-01	1454	3	.002	--	--	L .001	.003	.001	L .001	L .002
82-07-14	1110	3	.004	--	--	L .001	.004	L .001	L .001	L .002
82-08-17	1150	3	.007	--	--	L .001	.004	L .001	L .001	L .002
82-09-23	0955	3	.004	--	--	L .001	.006	L .001	L .001	L .002
82-10-08	1147	3	.004	--	--	L .001	.009	.001	L .001	L .002
82-11-29	1143	3	.003	--	--	L .001	.001	L .001	L .001	L .002
82-12-17	1215	3	.005	--	--	L .001	.002	L .001	L .01	L .002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-13	1535	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-02-19	1502	3	L .001 20R	L .001 05R	L .004 00R	L .01 30R	L .0020 40R	L .001 50R	L .003 55R	L .001 40R
82-03-16	1555	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-04-20	1543	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-05-10	1511	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-06-01	1454	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-07-14	1110	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-08-17	1150	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-09-23	0955	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-10-08	1147	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-11-29	1143	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001
82-12-17	1215	3	L .001	L .001	L .004	L .01	L .0020	L .001	L .003	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-13	1535	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-02-19	1502	3	L .002 45R	L .0020 50R	L .001 25R	L .003 60R	L .002 65R	L 2 20H	L .004 00H	L .009 50H
82-03-16	1555	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-04-20	1543	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-05-10	1511	3	L .002	L .0020	L .001	L .003	L .002	L 2	.030	L .009
82-06-01	1454	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-07-14	1110	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-08-17	1150	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-09-23	0955	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-10-08	1147	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-11-29	1143	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009
82-12-17	1215	3	L .002	L .0020	L .001	L .003	L .002	L 2	L .004	L .009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-13	1535	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-02-19	1502	3	L .004 55H	L .002 10H	L .004 40H	L 2 01H	L .002 59R	L .002 60R	L .005 62R	L .002 64R
82-03-16	1555	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-04-20	1543	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-05-10	1511	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-06-01	1454	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-07-14	1110	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-08-17	1150	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-09-23	0955	3	L .004	L .002	L .004	2	L .002	L .002	L .005	L .002
82-10-08	1147	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-11-29	1143	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002
82-12-17	1215	3	L .004	L .002	L .004	L 2	L .002	L .002	L .005	L .002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05000012 PINE CREEK DIVERSION AT HWY 89. MANITOBA

LAT. 49D 1M 23S LONG. 95D 58M 40S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-13	1155	3	.0	19.6	390.	432.	7.5	7.3	13.0	6.5
82-02-18	1258	3	0	20.9	365.	377.	7.6	7.4	3.7	4.1
82-03-16	1220	3	0	20.5	370.	382.	7.6	7.3	3.9	3.1
82-04-20	1146	3	2.0	22.9	315.	281.	7.7	7.6	13.0	3.0
82-05-10	1221	3	6.0	18.6	370.	361.	7.8	7.8	2.8	2.4
82-06-01	1240	3	11.0	22.9	385.	391.	8.1	7.9	4.1	3.7
82-09-23	1259	3	13.0	21.0	295.	378.	8.0	8.1	.4	2.5
82-10-08	0955	3	8.0	20.6	390.	348.	7.9	7.7	.4	2.1
82-11-29	0945	3	0	16.6	--	428.	7.8	7.2	--	6.2
82-12-17	1010	3	0	18.9	250.	397.	7.7	7.3	1.6	4.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-13	1155	3	30.	11.	--	.005	2.	L2.	--	8.2
82-02-18	1258	3	30.	4.	--	.001	90.	L2.	--	7.9
82-03-16	1220	3	10.	2.	-	.004	5.	L2.	--	9.1
82-04-20	1146	3	60.	21.	-	.001	3.	L2.	--	11.2
82-05-10	1221	3	40.	3.	-	.004	50.	16.	--	10.7
82-06-01	1240	3	50.	4.	--	.002	40.	27.	--	11.0
82-09-23	1259	3	30.	2.	-	.008	350.	20.	--	9.9
82-10-08	0955	3	60.	5.	--	.004	50.	L2.	--	9.6
82-11-29	0945	3	30.	4.	-	.001	20.	6.	-	5.5
82-12-17	1010	3	30.	5.	-	.005	4.	2.	--	6.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-13	1155	3	0	0	274.	225.0	59.80	19.7	230.4	4.1
82-02-18	1258	3	0	0	244.	200.0	52.50	17.4	202.7	3.8
82-03-16	1220	3	0	0	238.	195.0	50.10	17.8	198.4	5.7
82-04-20	1146	3	0	0	171.	140.0	39.40	13.0	151.9	3.0
82-05-10	1221	3	0	.0	232.	190.0	49.40	17.2	194.2	4.5
82-06-01	1240	3	0.	0	262.	215.0	58.40	17.9	219.5	4.0
82-09-23	1259	3	0	0	268.	220.0	58.80	18.5	223.0	4.4
82-10-08	0955	3	0	0	226.	185.0	52.70	16.8	200.8	4.8
82-11-29	0945	3	0	0	305.	250.0	64.10	21.6	249.0	4.0
82-12-17	1010	3	0.	0	280.	230.0	61.20	20.0	235.2	3.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-13	1155	3	1.4	1.4	14	7	20.0	248.	--	-
82-02-18	1258	3	1.3	1.0	.09	5	18.0	219.	--	--
82-03-16	1220	3	1.5	3.8	10	6	17.0	219.	--	--
82-04-20	1146	3	2.0	1.7	11	7.	11.0	161.	-	-
82-05-10	1221	3	1.1	2.1	.08	9.	10.0	207.	-	--
82-06-01	1240	3	.8	1.2	14	5	13.0	229.	-	--
82-09-23	1259	3	1.2	1.1	.09	3	16.0	235.	--	--
82-10-08	0955	3	1.8	4.6	11	8	16.0	216.	--	--
82-11-29	0945	3	1.2	1.3	16	6	21.0	269.	--	-
82-12-17	1010	3	1.2	1.0	.10	6	21.0	252.	--	-

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - OOMA05OD0012 LAT. 49D 1M 23S LONG. 95D 58M 40S
PINE CREEK DIVERSION AT HWY 89. MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-01-13	1155	3	028	.006	.022	10	.31	29	.08	.37
82-02-18	1258	3	020	010	010	12	.25	25	L .01	Q 26
82-03-16	1220	3	020	.015	005	15	.25	25	.04	.29
82-04-20	1146	3	083	026	.057	06	57	59	.17	76
82-05-10	1221	3	018	.008	.010	02	.43	46	.04	.50
82-06-01	1240	3	020	015	005	L .01	39	40	04	.44
82-09-23	1259	3	.015	.010	L .006	L .01	.25	.25	L .01	Q 26
82-10-08	0955	3	023	.013	010	22	62	62	L .01	Q 63
82-11-29	0945	3	018	006	012	05	30	.29	L .01	Q 30
82-12-17	1010	3	022	009	013	06	.32	.36	L .01	Q 37

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902I CARBON ORGANIC PARTICUL. C MG/L	06002I CARBON TOTAL ORGANIC (CALCD.) MG/L	05105I BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-13	1155	3	L 1	--	4 2	1.20	5 4	06 05D	L .0005	L .0005
82-02-18	1258	3	L 1		3 6	30	3 9	07 05D	0007	L .0005
82-03-16	1220	3	L 1	-	3 6	41	4 0	07 05D	0007	L 0005
82-04-20	1146	3	L 1	-	13 0	1 60	14 6	17	0015	L 0005
82-05-10	1221	3	L 1	--	15 0	34	15 3	11 05D	0006	L 0005
82-06-01	1240	3	L 1	--	13 0	41	13 4	11 05D	0008	L .0005
82-09-23	1259	3	L 1	--	8 0	23	8.2	08 05D	0010	L 0005
82-10-08	0955	3	L 1	--	14 0	21	14 2	13 05D	0010	L 0005
82-11-29	0945	3	L 1	-	7 4	30	7 7	.06 05D	0007	L 0005
82-12-17	1010	3	L 1	-	6 8	48	7 3	03 05D	L 0005	L .0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-13	1155	3	-	-		14	-	06	03	-
82-02-18	1258	3	-		-	06	-	06	L 02	-
82-03-16	1220	3	-	-		04	-	07	04	--
82-04-20	1146	3	-	-		07	-	17	L 02	--
82-05-10	1221	3	-		-	04	-	11	02	
82-06-01	1240	3	-	-		07	-	19	L 02	-
82-09-23	1259	3	-	--		L 01	-	06	06	--
82-10-08	0955	3	-	--	-	01	--	07	02	--
82-11-29	0945	3	-	-		20	-	11	05	--
82-12-17	1010	3		--		20	--	08	03	-

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

STATION - 00MA05PF0022 LAT. 50D 18M 2S LONG. 95D 33M 20S
WINNIPEG RIVER AT POINTE DU BOIS. MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-15	0917	3	.0	19.4	110.	116.	7.4	7.4	2.1	2.0
82-02-17	0907	3	.0	20.1	115.	112.	7.4	7.3	2.0	2.0
82-03-19	0854	3	.0	23.2	125.	111.	7.2	7.3	2.2	2.4
82-04-14	0857	3	.0	22.7	140.	111.	7.2	7.2	.4	2.0
82-05-07	0904	3	5.0	23.6	140.	109.	7.8	7.8	4.4	3.5
82-06-21	1630	3	14.0	21.8	130.	128.	7.6	7.6	1.2	2.3
82-10-05	0840	3	9.0	15.0	150.	103.	8.0	7.7	.2	3.0
82-11-05	0836	3	4.5	21.2	110.	103.	8.1	7.6	.2	2.5
82-12-09	0830	3	.0	20.0	75.	101.	8.1	7.6	.1	1.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-15	0917	3	20	L1.		.001	L2.	L2.	--	12.2
82-02-17	0907	3	30.	2.	-	L.001	L2.	L2.	--	11.4
82-03-19	0854	3	20.	1.	--	.004	L2.	L2.	--	11.2
82-04-14	0857	3	20.	2	--	L.001	L2.	L2	--	10.7
82-05-07	0904	3	30.	6	--	.005	L2.	L2	--	13.1
82-06-21	1630	3	20	4	-	.005	4.	L2.	--	10.0
82-10-05	0840	3	30.	5	-	.008	10.	L2.	--	10.1
82-11-05	0836	3	20	2. 01R	-	.003 17T	6. 02U	L2. 12U	--	9.6
82-12-09	0830	3	20	3.	-	.001	L2.	L2.	--	12.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-15	0917	3	0.	0	59	48.0	15.10	4.6	56.6	3.0
82-02-17	0907	3	0	0	59	48.0	15.20	4.6	56.9	3.0
82-03-19	0854	3	0	.0	59	48.0	14.90	4.4	55.3	2.9
82-04-14	0857	3	0.	0	57	47.0	15.20	4.2	55.3	2.4
82-05-07	0904	3	0	.0	56	46.0	9.30	4.2	40.5	2.8
82-06-21	1630	3	0	0	57	47.0	14.90	4.1	54.1	3.0
82-10-05	0840	3	0.	0	52	43.0	13.70	3.8	49.9	2.8
82-11-05	0836	3	0	0	52	43.0	12.80	3.8	47.6	3.0
82-12-09	0830	3	0	.0	54	44.0	13.80	4.3	52.2	2.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-15	0917	3	.9	3.1	.12	6.	1.5	63	--	L.001
82-02-17	0907	3	.9	2.8	L.05	5	1.6	62	--	.002
82-03-19	0854	3	.9	2.8	.09	5.	1.6	62.	--	.004
82-04-14	0857	3	.8	2.6	L.05	5.	1.4	59.	-	.002
82-05-07	0904	3	.9	2.7	L.05	5.	.2	53	--	.002
82-06-21	1630	3	.8	2.8	.06	6	.4	60.	--	.001
82-10-05	0840	3	.9	2.8	L.05	5.	1.3	56	--	.003
82-11-05	0836	3	1.0	2.6	.09	5.	1.6	56	--	.002
82-12-09	0830	3	.9	2.4	.05	7.	1.3	58.	--	.006

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - OOMA05PF0022
WINNIPEG RIVER AT POINTE DU BOIS. MANITOBA LAT. 50D 18M 2S LONG. 95D 33M 20S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-15	0917	3	.036	.016	.020	07	43	.41	L.01	Q.42
82-02-17	0907	3	023	.023	.000	.11	.40	42	L.01	Q.43
82-03-19	0854	3	.020	.020	.000	11	.40	.42	L.01	Q.43
82-04-14	0857	3	.022	.020	.002	09	.38	.39	L.01	Q.40
82-05-07	0904	3	.024	.006	018	L.01	.31	.33	.16	49
82-06-21	1830	3	022	009	.013	L.01	.28	.29	10	.39
82-10-05	0840	3	022	013	.009	03	32	.32	.06	.38
82-11-05	0836	3	024 06R	.014 03V	.010 01R	03 10V	.36 51V	.35 51R	L.01 02R	--
82-12-09	0830	3	017	015	L 006	07	.38	.37	.04	41

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-15	0917	3	L.1	--	8 7	27	9 0	08 05D	.0009	L.0005
82-02-17	0907	3	L.1	--	8 6	22	8.8	08 05D	.0011	L.0005
82-03-19	0854	3	L.1	--	8 0	23	8 2	07 05D	0011	L.0005
82-04-14	0857	3	L 1	--	8 7	26	9 0	.08 05D	.0011	L.0005
82-05-07	0904	3	L.1	--	8.3	1 00	9.3	05 05D	0008	L.0005
82-06-21	1630	3	L.1	--	8.9	55	9.5	06 05D	L.0005	L.0005
82-10-05	0840	3	L 1	--	9 0	50	9 5	07 05D	0006	L.0005
82-11-05	0836	3	L.1 06W	--	8 5 04R	33 02R	--	06 05V	0010 04V	L.0005 02V
82-12-09	0830	3	L.1	-	8 4	25	8 7	07 05D	0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-15	0917	3	-	--	--	L 01	-	L 04	03	L 001
82-02-17	0907	3	--	-	--	L 01	-	L.04	03	L 001
82-03-19	0854	3	-	-	--	L 01	-	05	.03	L.001
82-04-14	0857	3	-	-	-	L 01	--	05	L.02	001
82-05-07	0904	3	-	-	-	L 01	-	04	L 02	L 001
82-06-21	1630	3	-	-	-	L 01	-	L 04	03	L 001
82-10-05	0840	3	--	-	-	L 01	--	L 04	L 02	L 001
82-11-05	0836	3	--	-	-	L 01 041	--	04 041	L 02 11W	L 001 20W
82-12-09	0830	3		-		L 01	-	L 04	03	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-15	0917	3	--	L 002	002	L 001	.005	L 001	L 05	L 004
82-02-17	0907	3	--	L.002	.003	004	007	L.001	L 05	L.004
82-03-19	0854	3	--	L 002	L.002	.002	L.001	L 001	--	L.004
82-04-14	0857	3	--	L 002	.003	003	006	L.001	L 05	L 004
82-05-07	0904	3	--	L 002	L.002	.003	.002	L 001	L.05	L 004
82-06-21	1630	3	--	L.002	L.002	.002	.016	L.001	L.05	L.004
82-10-05	0840	3	-	L 002	--	--	--	L 001	L.05	L.004
82-11-05	0836	3	--	L 002 20W	L.002 20W	001 20W	.002 20W	L.001 20W	L 05 20W	L.004 20W
82-12-09	0830	3	--	L.002	.002	.001	L.001	L 001	L 05	L 004

STATION - 00MA05PF0022 LAT. 50D 18M 2S LONG. 95D 33M 20S
WINNIPEG RIVER AT POINTE DU BOIS. MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-15	0917	3	--	--	--	L.001	L.001	L.001	L.001	L.002
82-02-17	0907	3	.002	-	--	L.001	.007	L.001	L.001	L.002
82-03-19	0854	3	L.001	--	--	L.001	.005	L.001	L.001	L.002
82-04-14	0857	3	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-05-07	0904	3	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-06-21	1530	3	.001	--	--	L.001	.005	L.001	L.001	L.002
82-10-05	0840	3	.002	--	--	L.001	.003	L.001	L.001	L.002
82-11-05	0836	3	.004 35W	--	--	L.001 11R	.003 75R	L.001 70R	L.001 30R	L.002 10R
82-12-09	0830	3	.005		--	L.001	.003	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-15	0917	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-17	0907	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-19	0854	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-14	0857	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-07	0904	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-21	1630	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-05	0840	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-05	0836	3	L.001 20R	L.001 05R	L.004 00P	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-12-09	0830	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-15	0917	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-17	0907	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-19	0854	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-14	0857	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-07	0904	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-21	1630	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-05	0840	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-05	0836	3	L.002 45R	L.0020 50R	L.001 25P	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-12-09	0830	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-15	0917	3	L.004	L.002	L.004	-	L.002	L.002	L.005	L.002
82-02-17	0907	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-19	0854	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-14	0857	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-07	0904	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-21	1630	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-05	0840	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-05	0836	3	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60P	L.005 62R	L.002 64R
82-12-09	0830	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN. L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05RA0004 LAT. 51D 5M 53S LONG. 96D 16M 59S
MANIGOTAGAN RIVER AT HWY 304 BRIDGE. MANIGOTAGAN, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG.C.	02061L TEMP. WATER DEG.C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-14	1244	3	.0	19.6	65.	74.	7.1	7.1	4.0	3.5
82-02-16	1246	3	.0	20.1	75.	72.	7.1	7.1	4.7	3.4
82-03-18	1256	3	.0	23.3	85	71.	7.2	7.2	3.8	3.1
82-04-13	1308	3	.0	22.7	105.	72.	7.1	7.1	.6	2.6
82-05-06	1237	3	12.0	23.2	110.	57.	7.0	6.9	3.8	2.3
82-06-21	1305	3	16.0	22.3	95.	61	7.0	7.3	1.5	2.5
82-10-04	1445	3	9.0	14.2	75.	61	8.0	7.4	4	3.4
82-11-04	1216	3	3.0	21.2	65.	65.	8.2	7.4	.2	3.4
82-12-08	1130	3	.0	20.1	65.	74.	7.8	7.2	.2	3.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-14	1244	3	80.	2	--	.001	3	12.	--	13.7
82-02-16	1246	3	70.	6	--	L .001	13	12	--	13.8
82-03-18	1256	3	50.	3	--	.001	2	2.	--	13.9
82-04-13	1308	3	60	3	--	.001	2	12	--	13.4
82-05-06	1237	3	110.	5	--	.002	9	12.	--	9.4
82-06-21	1305	3	70.	4	--	.002	14	3	--	8.6
82-10-04	1445	3	60.	5	--	.001	20	4	--	11.5
82-11-04	1216	3	80.	2	--	.003	6	4	--	11.9
82-12-08	1130	3	80	4		L .001	2	2	--	13.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-14	1244	3	0	0	37	30.0	11.00	3.5	41.9	1.1
82-02-16	1246	3	0	0	38	31.0	11.60	3.3	42.6	1.3
82-03-18	1256	3	0	0	38	31.0	10.20	3.3	39.1	1.3
82-04-13	1308	3	0	0	37.	30.0	11.00	3.3	41.1	1.5
82-05-06	1237	3	0	.0	26	21.0	7.10	2.7	28.8	1.1
82-06-21	1305	3	0	0	31	25.0	8.80	2.7	33.1	1.3
82-10-04	1445	3	0	0	31	25.0	8.50	2.9	33.2	1.1
82-11-04	1216	3	0	0	33	27.0	8.00	3.0	32.3	1.0
82-12-08	1130	3	0.	0	37	30.0	10.00	3.6	39.8	1.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-14	1244	3	.7	1.1	.08	4	1.1	41	--	
82-02-16	1246	3	.7	1.1	L .05	4	1.0	42	--	--
82-03-18	1256	3	.6	1.1	.07	4	1.2	40	--	--
82-04-13	1308	3	.8	1.5	L .05	4	1.4	42	--	--
82-05-06	1237	3	1.2	1.3	L .05	4	.8	31	--	--
82-06-21	1305	3	.5	1.0	L .05	5	.8	35	--	--
82-10-04	1445	3	.7	1.1	L .05	4	1.3	35	--	--
82-11-04	1216	3	.8	1.3	.07	5	2.0	37	--	--
82-12-08	1130	3	.8	1.3	L .05	4	1.8	41	--	--

STATION 00MA05RA0004 LAT. 51D 5M 53S LONG. 96D 16M 59S
MANIGOTAGAN RIVER AT HWY 304 BRIDGE. MANIGOTAGAN, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-14	1244	3	.020	.012	.008	.06	.48	.50	L.01	Q.51
82-02-16	1246	3	.025	.023	.002	.09	.52	.48	.05	.53
82-03-18	1256	3	.021	.021	.000	.11	.53	.51	.06	.57
82-04-13	1308	3	.035	.033	.002	.12	.53	.55	.08	.63
82-05-06	1237	3	.035	.018	.017	.01	.61	.67	.10	.77
82-06-21	1305	3	.025	.013	.012	.01	.38	.43	.10	.53
82-10-04	1445	3	.026	.016	.010	.02	.43	.43	.07	.50
82-11-04	1216	3	.027	.017	.010	.02	.52	.52	.04	.56
82-12-08	1130	3	.026	.018	.008	.06	.59	.58	.04	.62

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-14	1244	3	L.1	--	13.0	.29	13.3	.12 05D	L.0005	L.0005
82-02-16	1246	3	L.1	--	13.0	.39	13.4	.12 05D	L.0005	L.0005
82-03-18	1256	3	L.1	--	15.0	.42	15.4	.09 05D	.0007	L.0005
82-04-13	1308	3	L.1	--	14.0	.41	14.4	.13 05D	L.0005	L.0005
82-05-06	1237	3	L.1	--	16.0	.61	16.6	.15 05D	L.0005	L.0005
82-06-21	1305	3	L.1	--	15.0	.60	15.6	.08 05D	L.0005	L.0005
82-10-04	1445	3	L.1	--	14.0	.47	14.5	.08 05D	L.0005	L.0005
82-11-04	1216	3	L.1	--	18.0	.43	18.4	.14 05D	L.0005	L.0005
82-12-08	1130	3	L.1	--	18.0	.40	18.4	.13 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-14	1244	3	--	--	--	.02	-	.20	.02	--
82-02-16	1246	3	-		--	.01	-	.15	.03	-
82-03-18	1256	3		--	--	.01	--	.15	.03	--
82-04-13	1308	3	-		--	.03	--	.24	L.02	--
82-05-06	1237	3	-	-	-	L.01	-	.19	L.02	-
82-06-21	1305	3		-		.01	-	.15	L.02	-
82-10-04	1445	3	-	-		L.01	-	.15	L.02	--
82-11-04	1216	3				.02	-	.21	.02	-
82-12-08	1130	3	-	-	--	L.01	--	.35	.02	

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION 00MA05UH0001 LAT. 56D 54M 20S LONG. 93D 21M 50S
NELSON RIVER NEAR MOUTH (ABOVE WEIR RIVER).

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-06	1200	1	0	20.0	--	352.	--	7.9	--	9.0
82-03-23	1700	1	-	21.1	--	327.	--	7.9	--	7.1
82-05-17	1245	1	0	20.8	190.	217.	7.2	7.7	--	8.3
82-08-23	1457	1	16.0	24.0	250.	227.	7.7	8.1	--	8.2
82-09-30	1200	1	7.0	20.3	220.	241.	8.0	8.1	--	21.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-06	1200	1	30	11.	--	--	--	--	--	-
82-03-23	1700	1	20	7.	--	--	--	--	--	--
82-05-17	1245	1	30	25.	--	--	--	--	--	--
82-08-23	1457	1	20		--	--	--	--	--	-
82-09-30	1200	1	20	21	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-06	1200	1	0.	.0	140.	115.0	34.40	12.4	137.0	16.0
82-03-23	1700	1	0	.0	134	110.0	33.40	11.7	131.6	18.0
82-05-17	1245	1	0	0	94	77.0	25.20	7.2	92.6	12.0
82-08-23	1457	1	0	0	112	92.0	27.30	9.0	105.2	9.7
82-09-30	1200	1	0	0	110	90.0	26.50	9.0	103.2	12.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-06	1200	1	2.5	21.0	13	26	2.0	183.	-	-
82-03-23	1700	1	2.4	19.0	12	24	1.8	176	-	-
82-05-17	1245	1	1.5	10.0	08	16	1.6	120.	-	--
82-08-23	1457	1	1.7	12.0	10	16	1.6	133	-	-
82-09-30	1200	1	1.9	13.0	07	18	1.9	136	-	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-06	1200	1	040	011 03L	029	.05 10L	--	44	10	.54
82-03-23	1700	1	042	013 03L	029	15 10L	-	44	05	49
82-05-17	1245	1	040	014 03L	026	03 10L	--	27	09	.36
82-08-23	1457	1	019	007 03L	012	.03 10L	--	26	08	34
82-09-30	1200	1	038	.011 03L	027	.01 10L	-	29	08	.37

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-06	1200	1	-	--	8.1	.83	8.9	10	.0007 04L	L 0005 02L
82-03-23	1700	1	-	--	7.7	.23	7.9	07	0008 04L	L 0005 02L
82-05-17	1245	1	--		7.5	1.40	8.9	06	.0005 04L	L 0005 02L
82-08-23	1457	1	--	--	6.8	44	7.2	05	L.0005 04L	L 0005 02L
82-09-30	1200	1	--	-	6.9	.90	7.8	05	0006 04L	L 0005 02L

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA05UH0001 LAT. 56D 54M 20S LONG. 93D 21M 50S
NELSON RIVER NEAR MOUTH (ABOVE WEIR RIVER)

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-06	1200	1	--	--	.02	--	.29	--	--	L.001
82-03-23	1700	1	--	--	.02	--	.23	--	--	L.001
82-05-17	1245	1	--	--	.03	--	.56	--	--	.002
82-08-23	1457	1	--	--	.01	--	.21	--	--	.001
82-09-30	1200	1	--	--	.02	--	.46	--	--	.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-06	1200	1	--	L.002	.014	.003	.020	L.001	L.05	L.004
82-03-23	1700	1	--	L.002	L.002	.002	L.001	L.001	.05	L.004
82-05-17	1245	1	--	L.002	L.002	L.001	L.001	L.001	L.05	L.004
82-08-23	1457	1	--	L.002	L.002	.002	.008	L.001	L.05	L.004
82-09-30	1200	1	--	L.002	--	--	--	L.001	L.05	L.004

FOOTNOTE L - LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA06DA0001 LAT. 58D 0M 0S LONG. 101D 23M 44S
COCHRANE RIVER NEAR BROCHET, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301I PH PH UNITS	10301I PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-06	1300	1	.0	20.2	--	37.	--	6.8	--	2.4
82-03-23	1300	1	.0	21.3	--	41.	--	6.7	--	.6
82-06-15	1300	1	9.0	26.0	32.	29.	7.6	7.0	--	.6
82-08-10	1035	1	17.5	25.4	25.	28.	7.6	7.0	-	.9
82-09-14	1015	1	7.0	21.9	27.	25.	7.7	7.2	--	.8

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-06	1300	1	10.	L1	--	-	--	--	-	-
82-03-23	1300	1	10.	2	--	--	--	--	--	--
82-06-15	1300	1	5.	1	-	--	--	--	--	-
82-08-10	1035	1	10.	1	-	-	--	--	--	-
82-09-14	1015	1	10.	1	-	-	--	--	-	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-06	1300	1	0	0	15	12.0	3.00	1.3	12.8	1.0
82-03-23	1300	1	0	0	17	14.0	4.40	1.1	15.5	1.7
82-06-15	1300	1	0	0	15	12.0	3.20	1.1	12.5	1.0
82-08-10	1035	1	0	0	11	9.3	2.80	1.1	11.5	1.0
82-09-14	1015	1	0	0	12	9.5	2.60	1.0	10.6	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105I FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105I SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-06	1300	1	.7	.5	.12	2	2.3	18	-	-
82-03-23	1300	1	.9	1.0	.10	2	2.4	22	-	-
82-06-15	1300	1	.5	.4	.08	2	2.0	17		-
82-08-10	1035	1	.6	.3	.09	2	1.6	15		-
82-09-14	1015	1	.5	.4	.10	2	1.8	15		

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-06	1300	1	.069	.040 031	.029	.02 101	--	.37	.04	.41
82-03-23	1300	1	.016	.003 031	.013	.09 101	--	.54	.19	.73
82-06-15	1300	1	.052	.003 031	.049	L .01 101		.14	L .01	Q .15
82-08-10	1035	1	.015	.003 031	.012	.01 101	--	.16	L .01	Q .17
82-09-14	1015	1	.014	L .003 031	.012	L .01 101	--	.15	.06	.21

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-06	1300	1	--	--	11.0	.30	11.3	.04	L .0005 04L	L .0005 02L
82-03-23	1300	1	--	--	4.4	1.10	5.5	.04	L .0005 04L	L .0005 02L
82-06-15	1300	1	-	--	4.1	.32	4.4	.03	L .0005 04L	L .0005 02L
82-08-10	1035	1	--	--	4.3	.35	4.7	.02	L .0005 04L	L .0005 02L
82-09-14	1015	1	--	--	4.0	.39	4.4	.02	L .0005 04L	L .0005 02L

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA06DA0001 LAT. 58D 0M 0S LONG. 101D 23M 44S
COCHRANE RIVER NEAR BROCHET, MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-06	1300	1	--	--	L.01	--	.04	--	--	L .001
82-03-23	1300	1	--	--	L.01	--	.04	--	--	--
82-06-15	1300	1	--	--	.01	--	.10	--	--	L.001
82-08-10	1035	1	--	--	.02	--	.06	--	--	L.001
82-09-14	1015	1	--	--	.10	--	.09	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-06	1300	1	--	L.002	.005	.014	.018	.002	L.05	L.004
82-06-15	1300	1	--	L.002	L.002	.001	.008	.005	L.05	L.004
82-08-10	1035	1	--	L.002	.007	.001	.006	L.001	L.05	L.004
82-09-14	1015	1	--	L.002	L.002	L.001	.001	L.001	L.05	L.004

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA06FB0002 LAT 58D 7M 14S LONG 94D 37M 30S
CHURCHILL RIVER ABOVE RED HEAD RAPIDS MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061I TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-06	1330	1	.0	20.2	--	178.	--	7.3	--	1.6
82-03-23	1700	1	.0	21.4	--	173.	--	7.4	--	2.6
82-06-01	1320	1	4.5	21.1	105.	125.	7.9	7.6	--	15.0
82-08-24	1310	1	10.0	24.0	137	130.	8.0	8.1	--	2.7
82-09-28	1100	1	5.0	20.3	139.	137.	7.9	8.0	--	2.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-06	1330	1	20.	1	--	--	--	--	--	--
82-03-23	1700	1	20.	5.	--	--	--	--	--	--
82-06-01	1320	1	100.	28	--	--	--	--	--	--
82-08-24	1310	1	50.	2	--	--	--	--	--	--
82-09-28	1100	1	40.	3	--	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-06	1330	1	0.	0	100	82.0	23.60	6.9	87.3	2.8
82-03-23	1700	1	0.	.0	102	84.0	24.90	5.7	85.6	2.6
82-06-01	1320	1	0.	.0	65	53.0	18.10	3.6	60.0	1.4
82-08-24	1310	1	0.	0	82	67.0	21.70	5.1	75.2	1.7
82-09-28	1100	1	0	0	83	68.0	21.70	5.0	74.8	1.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-06	1330	1	1.5	2.7	.10	3.	4.4	94	--	--
82-03-23	1700	1	1.2	1.7	.09	3	4.8	94	--	--
82-06-01	1320	1	.5	1.4	L .05	4.	1.7	63	--	--
82-08-24	1310	1	.5	1.3	.09	3.	1.9	76	--	--
82-09-28	1100	1	.6	1.5	L .05	3	2.4	77		--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-06	1330	1	.048	--	--	--	--	--	-	
82-03-23	1700	1	.083	.003 03L	.080	.15 10L	--	.85	.13	.98
82-06-01	1320	1	.046	.010 03L	.036	L .01 10L	--	.25	L .01	G .26
82-08-24	1310	1	.018	.009 03L	.009	L .01 10L	-	.26	.06	.32
82-09-28	1100	1	.070	.008 03L	.062	L .01 10L	-	.28	L .01	G .29

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-06	1330	1	--	--	--	--	--	.07	L.0005 04L	L.0005 02L
82-03-23	1700	1	--	--	7.6	.71	8.3	.07	L.0005 04L	L.0005 02L
82-06-01	1320	1	--		12.0	1.50	13.5	.15	L.0005 04L	L.0005 02L
82-08-24	1310	1	--	--	9.2	.48	9.7	.06	L.0005 04L	L.0005 02L
82-09-28	1100	1	--	--	9.2	.36	9.6	.06	L.0005 04L	L.0005 02L

DETAILED WATER QUALITY DATA 1982
MANITOBA

STATION - 00MA06FD0002 LAT 58D 7M 14S LONG 94D 37M 30S
CHURCHILL RIVER ABOVE RED HEAD RAPIDS MANITOBA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-06	1330	1	--	--	L 01	--	08	--	--	L 001
82-03-23	1700	1	-	--	L 01	--	.08	--	--	L 001
82-06-01	1320	1	-	--	03	--	.71	--	-	.001
82-08-24	1310	1	-	--	.03	--	.15	--	--	.001
82-09-28	1100	1	--	--	02	--	.15	--	--	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-06	1330	1	-	L 002	006	004	023	.001	L 05	L 004
82-03-23	1700	1	-	L 002	L 002	010	020	L 001	L 05	016
82-06-01	1320	1	--	L 002	L 002	002	.006	L 001	L 05	L 004
82-08-24	1310	1	-	L 002	L 002	L 001	.003	L 001	L 05	L 004
82-09-28	1100	1	--	L 002	-	--	--	L 001	L 05	L 004

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

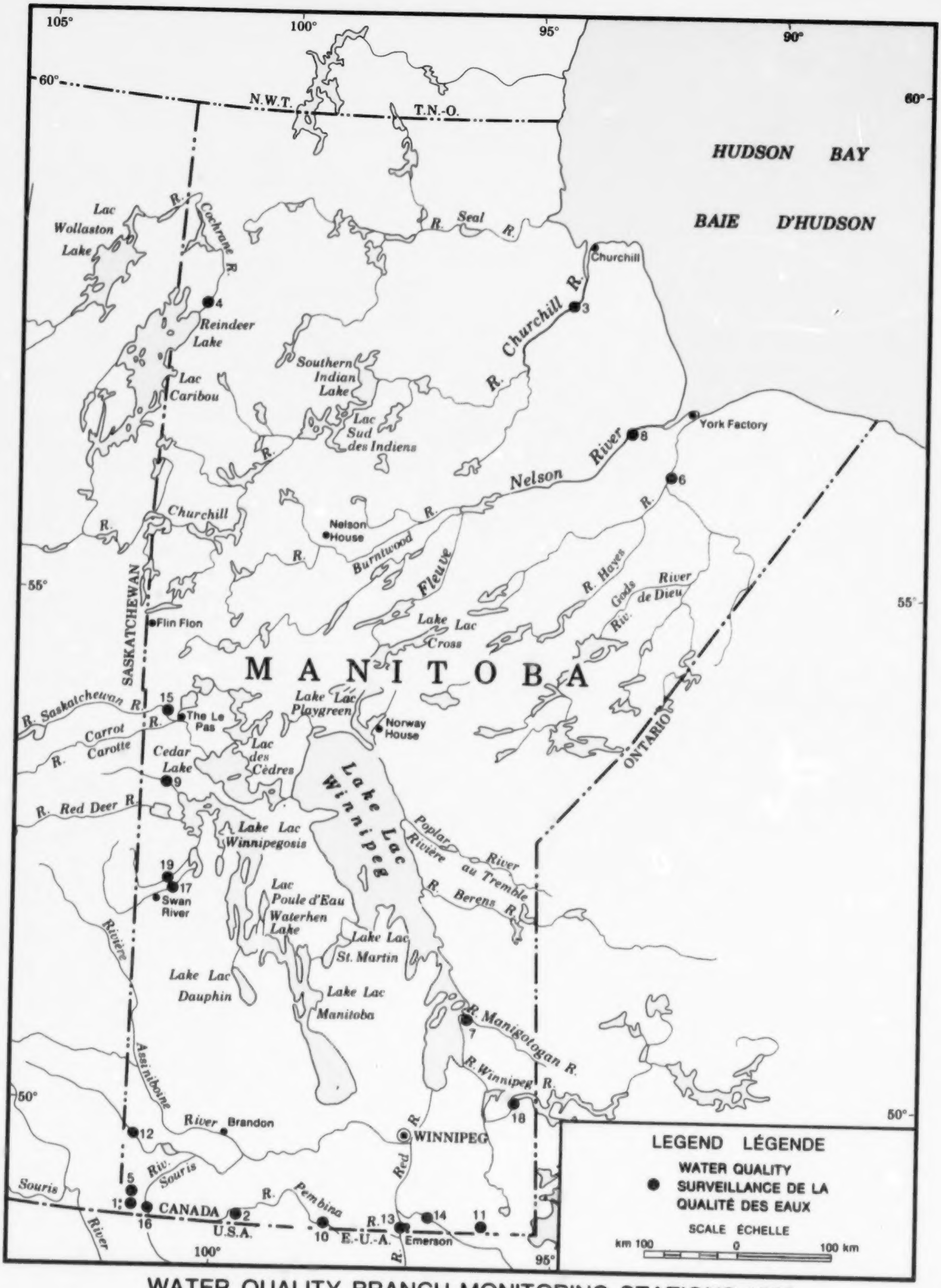
Alphabetical Station Index

Index alphabétique des stations

Location Description	Station Number Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
ANTLER RIVER NEAR COULTER AT HWY 251 MANITOBA	00MA05NF0009 97900S002	49	5	15	101	0	45	120	1
BADGER CREEK AT CARTWRIGHT, MANITOBA	00MA05OA0003 97900S007	49	6	15	99	19	21	126	2
CHURCHILL RIVER ABOVE RED HEAD RAPIDS MANITOBA	00MA06FD0002 97900S001	58	7	15	94	37	30	153	3
COCHRANE RIVER NEAR BROCHET, MANITOBA	00MA06DA0001 97900S002	58	0	0	101	23	45	151	4
GAINSBOROUGH CREEK AT HWY 83, 1.92KM ABOVE MOUTH, MANITOBA	00MA05NF0005 97900S003	49	9	30	101	2	51	119	5
HAYES RIVER BELOW JUNCTION WITH GODS RIVER, MANITOBA	00MA04AB0001	56	25	54	92	47	18	99	6
MANIGOTAGAN RIVER AT HWY 304 BRIDGE MANIGOTAGAN, MANITOBA	00MA05RA0004 97900S001	51	6	0	96	17	0	147	7
NELSON RIVER NEAR MOUTH (ABOVE WEIR RIVER)	00MA05UH0001	56	54	20	93	21	50	149	8
OVERFLOWING RIVER AT HWY 10 MANITOBA	00MA05LD0001 97900S001	53	9	15	101	6	30	105	9
PEMBINA RIVER AT WINDYGATES, MANITOBA	00MA05OB0001 97900S007	49	2	0	98	16	30	128	10
PINE CREEK DIVERSION AT HWY 89, MANITOBA	00MA05OD0012 97900S027	49	1	24	95	58	39	142	11
PIPESTONE CREEK 0.25 MILE FROM CROMER OFF BRIDGE ON HWY 255, MANITOBA	00MA05NG0013	49	44	18	101	14	9	122	12
RED RIVER AT EMERSON, MANITOBA	00MA05OC0001 97900S001	49	0	30	97	12	30	131	13
ROSEAU RIVER AT GARDENTON, MANITOBA	00MA05OD0001 97900S004	49	5	30	96	41	30	139	14
SASKATCHEWAN RIVER ABOVE CARROT RIVER MANITOBA	00MA05KH0001	53	50	30	101	20	6	101	15
SOURIS RIVER AT COULTER, MANITOBA	00MA05NF0001 97900S012	49	5	30	100	56	50	112	16

Location Description	Station Number Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
[illegible]	00MA05LE0002	[illegible]	7	30	101	15	6	108	17
[illegible]	00MA05PF0022 [illegible]	50	18	3	95	33	21	144	18
[illegible]	00MA05LE0003	52	12	30	101	15	6	110	19

Station Location Map
Carte des stations



WATER QUALITY BRANCH MONITORING STATIONS 1982
STATIONS DE SURVEILLANCE DE LA DIRECTION DE LA QUALITÉ DES EAUX 1982

NORTHWEST TERRITORIES
TERRITOIRES DU NORD-OUEST

Detailed Data / Données détaillées

STATION - 00NW06JC0001 LAT. 64D 32M 8S LONG. 101D 23M 48S
THELON RIVER ABOVE THELON BLUFFS. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-07-18	1330	1	3.0	24.0	45	90	--	6.8	4.5	10

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-07-18	1330	1	2.	0.	0	11.	9.1	2.80	1.5	13.2

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-07-18	1330	1	.9	.5	2.7	L.05	1	3	16	.003

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-07-18	1330	1	110	110	01	14	L.01	0.15	2.3	12

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-07-18	1330	1	2.4	02	L.0005	L.0005	02	08	L.001	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111F URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-07-18	1330	1		L.001	L.002		L.05	L.001		

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00NW06LC0001 LAT. 63D 38M 58S LONG. 95D 51M 15S
KAZAN RIVER ABOVE KAZAN FALLS. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG.C	02061L TEMP. WATER DEG.C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-05-04	1700	1	.0	20.9	40.	35.	7.8	6.6	.3	10.
82-07-21	0820	1	--	24.1	21.	20.	--	7.0	.5	10.
82-08-26	1800	1	5.0	19.9	25.	23.	5.4	7.3	.3	10.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-05-04	1700	1	1	0	.0	17.	14.0	4.70	1.5	17.9
82-07-21	0820	1	3	0	.0	10.	7.9	2.40	.8	9.3
82-08-26	1800	1	1	0	.0	10.	8.4	2.60	.9	10.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-05-04	1700	1	1.0	.8	.8	.13	2.	.4	20.	.005
82-07-21	0820	1	.7	.4	.4	.08	1.	.2	11.	.003
82-08-26	1800	1	.7	.6	.7	.09	1.	.1	12.	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-05-04	1700	1	.010	.005	.10	.61	.19	.80	4.4	.97
82-07-21	0820	1	.180	.180	.01	.14	.06	.20	2.9	.58

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-05-04	1700	1	5.4	.02	L.0005	L.0005	L.01	L.04	.001	.005
82-07-21	0820	1	3.5	L.02	L.0005	L.0005	.02	.08	L.001	L.004
82-08-26	1800	1	--	L.02	L.0005	L.0005	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-05-04	1700	1	.009	L.001	L.002	L.002	L.05	L.001	--	--
82-07-21	0820	1	.008	L.001	L.002	L.002	L.05	L.001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00NW06MB0001
QUOICH RIVER NEAR BAKER LAKE. NORTHWEST TERRITORIES LAT. 64D 27M 29S LONG. 94D 7M 9S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-05-10	1100	1	.0	20.9	28.	32.	--	6.4	.5	10
82-07-22	1230	1	3.0	24.0	11.	11.	--	6.6	1.7	20
82-08-28	1900	1	5.0	20.0	13.	15.	5.8	6.7	.8	10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-05-10	1100	1	1.	0	.0	7.	6.0	1.90	.8	8.0
82-07-22	1230	1	1.	0	.0	2.	1.6	.50	.3	2.5
82-08-28	1900	1	11.	0	.0	2.	1.6	.70	.2	2.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-05-10	1100	1	2.4	1.4	2.4	.05	2.	.4	15.	.004
82-07-22	1230	1	1.0	.3	1.2	L .05	2.	1.2	7.	.003
82-08-28	1900	1	.7	.8	1.4	L .05	1.	.4	6.	.006

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-05-10	1100	1	.016	.012	.09	.59	.07	.66	1.9	.47
82-07-22	1230	1	.022	.019	.02	.11	.02	.13	1.8	.15
82-08-28	1900	1	.100	.090	L .01	.09	.03	.12	1.4	.19

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-05-10	1100	1	2.4	L .02	L .0005	L .0005	L .01	.09	.003	.005
82-07-22	1230	1	2.0	.02	L .0005	L .0005	L .01	.11	L .001	L .004
82-08-28	1900	1	1.6	L .02	L .0005	L .0005	L .01	.09	L .001	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-05-10	1100	1	.015	L .001	L .002	L .002	L .05	L .001	--	--
82-07-22	1230	1	--	L .001	L .002	L .002	L .05	L .001	--	--
82-08-28	1900	1	.007	L .001	L .002	L .002	L .05	L .001	--	

FOOTNOTE: L - LESS THAN DETECTION LIMIT; G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION; G - PLUS GRAND QUE LA LIMITE MESURE

STATION - OONW07OB0001
HAY RIVER NEAR HAY RIVER

NORTHWEST TERRITORIES

LAT. 60D 44M 44S LONG. 115D 51M 20S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-01-12	1100	1	.0	15.9	--	748.	--	7.7	6.1	70
82-03-10	1300	1	0	18.4	--	1140.	7.7	7.4	5.0	60
82-04-15	1300	1	.0	21.1	--	1130.	7.2	7.3	10.0	40
82-07-28	0930	1	21.0	24.7	--	412.	8.0	7.9	3.5	60
82-08-25	1630	1	10.0	23.8	--	397.	8.3	8.2	2.3	60
82-10-07	0845	1	6.0	8.0	--	365.	--	8.0	4.2	50
82-12-07	1600	1	.0	17.4	--	597.	--	7.7	5.5	60

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-01-12	1100	1	2.	0	0	311	255.0	102.00	29.5	376.2
82-03-10	1300	1	1	0	0	475	390.0	168.00	48.1	617.5
82-04-15	1300	1	9	0	0	451	370.0	146.00	47.8	561.4
82-07-28	0930	1	4.	0	0	140	115.0	59.30	16.9	217.7
82-08-25	1630	1	2	0.	0	160	131.0	55.80	16.2	206.0
82-10-07	0845	1	5	0	0	140	115.0	47.20	13.5	173.4
82-12-07	1600	1	4.	0	0	226	185.0	79.50	23.6	295.7

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-01-12	1100	1	26.0	3.3	13.0	20	155	4.6	486	.014
82-03-10	1300	1	60.0	6.0	24.0	25	264	8.0	812	.010
82-04-15	1300	1	55.0	5.0	24.0	18	268	7.8	776	.014
82-07-28	0930	1	13.0	4.2	4.3	12	104	4.4	275	.010
82-08-25	1630	1	13.0	3.5	5.9	15	76	1.2	250	.013
82-10-07	0845	1	14.0	3.2	4.6	13	70	.7	222	.010
82-12-07	1600	1	25.0	4.4	9.3	13	133	2.7	389	.019

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW070B0001
HAY RIVER NEAR HAY RIVER — NORTHWEST TERRITORIES — LAT. 60D 44M 44S LONG. 115D 51M 20S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-01-12	1100	1	.014	L.006	.34	1.00	.04	1.00	18.0	.35
82-03-10	1300	1	.019	.009	.58	1.40	.07	1.50	38.0	.59
82-04-15	1300	1	.022	.008	.36	.93	.07	1.00	27.0	.46
82-07-28	0930	1	.029	.019	.12	1.00	.20	1.20	25.0	1.20
82-08-25	1630	1	.018	L.006	.54	1.20	.07	1.30	21.0	.49
82-10-07	0845	1	.022	.012	.22	.74	.09	.83	18.0	.55
82-12-07	1600	1	.032	.013	.68	1.60	.05	1.70	26.0	.43

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-12	1100	1	18.4	.25	L.0005	L.0005	.01	.60	.003	L.004
82-03-10	1300	1	38.6	.32	L.0005	L.0005	.02	.60	.008	L.004
82-04-15	1300	1	27.5	.28	L.0005	L.0005	.04	.33	.005	L.004
82-07-28	0930	1	26.2	.15	.0005	L.0005	.11	.14	.003	L.004
82-08-25	1630	1	21.5	.13	L.0005	L.0005	.02	.18	.003	L.004
82-10-07	0845	1	18.6	.12	L.0005	L.0005	.03	.42	.003	L.004
82-12-07	1600	1	26.4	.21	L.0005	L.0005	L.01	.62	.017	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-01-12	1100	1	.008	L.001	.002	.004	.06	.001	--	
82-03-10	1300	1	.001	L.001	L.002	.004	.18	L.001	--	--
82-04-15	1300	1	.005	L.001	L.002	.007	.11	.001	--	--
82-07-28	0930	1	.009	L.001	L.002	L.002	.05	L.001	--	--
82-08-25	1630	1	--	L.001	L.002	--	.05	L.001		
82-10-07	0845	1	.008	L.001	L.002	.002	.07	L.001	--	--
82-12-07	1600	1	.008	L.001	L.002	.003	.06	L.001		

FOOTNOTE L LESS THAN DETECTION LIMIT — G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION — G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION **OONW10EA0004** LAT. **61D 31M 59S** LONG. **125D 24M 20S**
FLAT RIVER NEAR MOUTH. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-04-06	1120	1	.0	20.4	350.	383.	--	7.8	.9	5.
82-09-03	1200	1	--	19.6	--	253.	--	8.2	2.7	5.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-04-06	1120	1	L1.	0.	0	207.	170.0	57.20	12.9	195.9
82-09-03	1200	1	--	0	0	140.	115.0	43.50	8.8	144.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-04-06	1120	1	1.6	.8	5	05	36	6.6	218.	--
82-09-03	1200	1	1.3	.7	3	08	26	5.6	155.	.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-04-06	1120	1	011	--		-	--	-		
82-09-03	1200	1	--	-	03	07	.02	.09	1.7	16

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-04-06	1120	1	-	04	L 0005	.0008	L.01	06	L 001	L 004
82-09-03	1200	1	1.9	04	0005	L 0005	L.01	.39	001	L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-04-06	1120	1	015	L 001	L.002	005	07	L.001	-	--
82-09-03	1200	1	.010	001	L 002	L 002	.06	L.001	-	--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10ED0002 LAT. 61D 44M 22S LONG. 121D 13M 9S
LIARD RIVER ABOVE FORT SIMPSON. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-03-12	1120	1	.0	21.7	360.	397.	7.6	7.7	.9	5.
82-06-11	1200	1	12.0	23.7	165.	187.	--	8.0	93.0	50.
82-08-23	0815	1	13.0	26.7	250.	243.	--	8.2	44.0	20
82-10-06	0900	1	5.0	20.1	270	285	8.5	8.1	7.0	10.
82-12-17	1020	1	1.0	17.8	350.	363	7.9	7.8	2.2	10.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-03-12	1120	1	2	0	0	207	170.0	57.20	16.9	212.4
82-06-11	1200	1	216	0	0	98	80.0	27.80	6.3	95.4
82-08-23	0815	1	51	0	0	134	110.0	38.00	10.1	136.5
82-10-06	0900	1	13	0	0	152	125.0	44.50	12.0	160.5
82-12-17	1020	1	1	0	0	199	163.0	56.90	15.3	205.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-03-12	1120	1	4.3	.9	3.0	.12	40	7.2	232.	L.003
82-06-11	1200	1	1.4	.7	.7	.08	20	4.5	109.	--
82-08-23	0815	1	2.1	2.2	2.0	.09	29	4.8	154.	.005
82-10-06	0900	1	3.3	.8	1.3	.10	34	5.3	176	.040
82-12-17	1020	1	3.0	.8	1.9	.10	41	7.4	224	L.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-03-12	1120	1	.015	.013	.15	.20	L.01	.20	2.1	.08
82-06-11	1200	1	.160		.05	.19	.47	.66	5.9	6.00
82-08-23	0815	1	.052	.047	.04	.13	.14	.27	3.8	1.30
82-10-06	0900	1	.098	.058	.04	.10	.04	.14	2.6	.44
82-12-17	1020	1	.013	.011	.11	.35	L.01	.35	2.9	.20

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-03-12	1120	1	2.2	.05	L.0005	L.0005	L.01	.06	.004	L.004
82-06-11	1200	1	11.9	.08	L.0005	L.0005	.13	2.40	.014	.004
82-08-23	0815	1	5.1	.05	L.0005	L.0005	.03	.67	.003	L.004
82-10-06	0900	1	3.0	.06	L.0005	L.0005	.02	.22	.021	L.004
82-12-17	1020	1	3.1	.06	L.0005	.0007	.01	.18	.001	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-03-12	1120	1	L.001	L.001	L.002	L.002	.10	L.001	--	--
82-06-11	1200	1	.044	.018	L.002	.014	.17	L.001	--	--
82-08-23	0815	1	.008	.003	L.002	.006	.09	L.001	--	--
82-10-06	0900	1	.019	.001	L.002	.014	.08	L.001	--	--
82-12-17	1020	1	.005	L.001	L.002	.004	.06	L.001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10FB0001 LAT. 61D 15M 2S LONG. 118D 3M 0S
MACKENZIE RIVER NEAR FORT PROVIDENCE. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-04-15	1430	1	.0	21.5	--	319.	--	7.8	4.1	10.
82-07-27	1300	1	19.0	24.5	--	231.	8.4	8.5	8.2	20.
82-08-26	1210	1	8.0	24.1	--	228.	8.6	8.4	12.0	20.
82-10-06	1415	1	5.0	20.1	--	242.	--	8.0	23.0	30.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-04-15	1430	1	5.	0	0	152.	125.0	44.90	9.8	152.5
82-07-27	1300	1	15.	2.	2.0	116.	99.0	35.80	7.8	121.5
82-08-26	1210	1	12.	1.	.8	118.	98.0	35.80	7.8	121.5
82-10-06	1415	1	26.	0.	.0	121.	99.0	36.60	7.5	122.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-04-15	1430	1	6.9	1.4	6.7	.08	30.	.8	176.	.008
82-07-27	1300	1	5.6	1.3	3.3	10	22	3.2	138.	.007
82-08-26	1210	1	5.1	1.3	3.2	11	22.	4.1	138.	.008
82-10-06	1415	1	5.8	1.5	3.5	09	24	3.7	142.	.010

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-04-15	1430	1	010	L 006	.06	.33	06	39	9.0	39
82-07-27	1300	1	024	017	.02	.32	07	39	10.0	43
82-08-26	1210	1	023	015	01	30	07	37	10.0	58
82-10-06	1415	1	030	020	L 01	.25	10	35	9.3	90

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-04-15	1430	1	9.4	06	L 0005	L 0005	L 01	12	.001	L 004
82-07-27	1300	1	10.4	06	L.0005	L 0005	02	.32	.003	L 004
82-08-26	1210	1	10.6	06	L 0005	L 0005	.02	22	002	L 004
82-10-06	1415	1	10.2	06	L 0005	L 0005	L.01	.20	002	L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-04-15	1430	1	.009	L 001	L 002	002	L 05	L 001	--	--
82-07-27	1300	1	007	.001	L 002	L 002	06	L 001	--	-
82-08-26	1210	1	016	L.001	L 002	L 002	06	L 001	--	--
82-10-06	1415	1	009	.002	L 002	.008	.08	L 001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10JA0001 LAT. 65D 35M 44S LONG. 117D 45M 20S
CAMSELL RIVER AT OUTLET OF CLUT LAKE. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-02-23	1435	1	.0	7.9	--	118.	--	7.6	4	20
82-05-31	2315	1	2.0	20.2	107	117.	--	7.5	6	5
82-09-20	1350	1	4.0	21.2	--	105.	7.3	7.8	.3	5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-02-23	1435	1	11	0	.0	61	50.0	15.60	6.4	65.3
82-05-31	2315	1	1	0	0	59	48.0	13.80	6.1	59.6
82-09-20	1350	1	11	0.	0	52	43.0	13.00	5.5	55.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-02-23	1435	1	2.0	8	2.5	14	10	1.5	69	011
82-05-31	2315	1	1.9	1.0	2.2	14	10	1.5	65	003
82-09-20	1350	1	2.0	8	2.1	12	8	1.3	59	L 003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-02-23	1435	1	011	L 006	05	18	01	19	4.2	08
82-05-31	2315	1	011	008	04	17	L 01	17	4.5	08
82-09-20	1350	1			03	15	03	18	4.2	19

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE MN MG/L	26304P IRON EXTRBLE FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-23	1435	1	4.3	04	L 0005	L 0005	L 01	L 04	002	L 004
82-05-31	2315	1	4.6	06	L 0005	L 0005	L 01	L 04	001	L 004
82-09-20	1350	1	4.4	02	L 0005	L 0005	L 01	13		L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	55020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-02-23	1435	1	002	L 001	L 002	L 002	L 05	L 001	--	-
82-05-31	2315	1	013	L 001	L 002	L 002	L 05	L 001	-	-
82-09-20	1350	1	-	001	L 002	-	L 05	L 001		--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - OONW10JC0001 LAT. 65D 8M 8S LONG. 123D 30M 50S
GREAT BEAR RIVER AT OUTLET OF GREAT BEAR LAKE NEAR FORT FRANKLIN. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL UNITS
82-02-23	1430	1	.0	8.9	--	155	--	7.8	.4	10.
82-04-20	1030	1	.0	23 1	--	176	--	7.8	.2	5.
82-06-01	0235	1	1.0	20.3	--	132.	--	7.7	.2	10.
82-09-20	0905	1	5.0	21.2	--	148.	--	8.0	.5	L5.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-02-23	1430	1	11	0	0	74	61 0	17 80	8 2	78 2
82-04-20	1030	1	11	0	0	74	61 0	21 40	8 7	89 3
82-06-01	0235	1	1	0.	.0	62	51 0	14 90	6.5	64 0
82-09-20	0905	1	1	0	0	67	55 0	16 60	7 2	71.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-02-23	1430	1	3.9	6	5 6	10	16	2.8	92	033
82-04-20	1030	1	3.8	7	5 6	13	16	3 1	96	008
82-06-01	0235	1	3.3	7	4.2	07	13	2.2	75	L 003
82-09-20	0905	1	4.0	1 4	5 4	06	13	2.2	83	L.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-02-23	1430	1	064	031	19	24	L 01	24	2 1	04
82-04-20	1030	1			18	.23	L 01	23	2 3	07
82-06-01	0235	1	011	009	13	.23	L 01	23	3 4	11
82-09-20	0905	1	L 003	L 006	12	20	L 01	20	2 1	13

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-23	1430	1	2 1	04	L.0005	L.0005	L 01	L 04	001	L 004
82-04-20	1030	1	2 4	04	L.0005	L.0005	L 01	L.04	009	L 004
82-06-01	0235	1	3.5	08	L 0005	L 0005	L 01	L 04	001	L 004
82-09-20	0905	1	2.2	02	L.0005	L.0005	L 01	L 04	--	L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-02-23	1430	1	006	L.001	L.002	004	.05	L.001	--	--
82-04-20	1030	1	016	L.001	L.002	L.002	L 05	002	--	--
82-06-01	0235	1	009	L.001	L.002	L.002	L 05	L 001	--	--
82-09-20	0905	1	--	L 001	L.002	--	L 05	L.001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10KA0001 LAT. 65D 16M 54S LONG. 126D 50M 57S
MACKENZIE RIVER AT NORMAN WELLS. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-02-27	1200	1	0	17.0	--	307.	--	7.8	1.5	30
82-04-23	1120	1	0	23.4	--	258	--	7.8	1.2	L5
82-06-01	1520	1	4.0	20.6	196	193.	8.2	7.8	120.0	70
82-09-25	0940	1	3.0	20.3	215	230	--	8.1	15.0	10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-02-27	1200	1	11	0	0	102	84.0	30.20	9.6	114.9
82-04-23	1120	1	4	0	0	99	81.0	33.00	9.5	121.5
82-06-01	1520	1	328	0	0	90	74.0	25.80	6.7	92.0
82-09-26	0940	1	22	0	0	101	83.0	29.60	8.5	108.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-02-27	1200	1	7.6	.8	11.0	15	24	3.6	137	010
82-04-23	1120	1	8.6	9	12.0	12	28	3.2	144	L 003
82-06-01	1520	1	4.8	1.0	5.5	08	20	3.0	111	022
82-09-25	0940	1	8.4	1.0	9.2	09	24	3.2	134	003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-02-27	1200	1	021	011	17	24	L 01	24	2.9	08
82-04-23	1120	1	034	032	15	22	03	25	3.0	23
82-06-01	1520	1	250	230	06	29	48	77	10.0	7.40
82-09-25	0940	1	044	041	07	19	04	23	3.7	69

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-27	1200	1	3.0	07	L 0005	L 0005	L 01	08	L 001	L 004
82-04-23	1120	1	3.2	04	L 0005	L 0005	L 01	04	008	004
82-06-01	1520	1	17.4	12	L 0005	L 0005	13	3.00	016	L 004
82-09-25	0940	1	4.4	04	L 0005	L 0005	02	27		L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-02-27	1200	1	L 001	L 001	L 002	L 002	09	L 001	--	--
82-04-23	1120	1	018	L 001	L 002	002	L 05	L 001	--	--
82-06-01	1520	1	009	017	L 002	011	15	L 001	--	--
82-09-25	0940	1	--	002	L 002	--	L 05	L 001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10LA0003 LAT. 67D 21M 29S LONG. 133D 33M 29S
MACKENZIE RIVER ABOVE ARCTIC RED RIVER NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-01-28	1250	1	0	23.9	--	335.	7.4	7.7	9.1	20.
82-04-07	1130	1	0	20.3		319.	7.3	7.8	3.2	10
82-06-29	1315	1	16.0	22.8	195.	206	--	8.0	140.0	20
82-08-09	1450	1	15.0	26.5	250	250.	--	8.1	37.0	20
82-09-20	1200	1	9.0	20.6	246	249.	--	8.1	140.0	30
82-10-25	1050	1	.0	16.1	255	268	7.7	7.9	7.5	20
82-11-18	1150	1	0	16.0	--	299	--	7.9	3.8	10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-01-28	1250	1	9	0	0	134	110.0	42.20	11.6	153.1
82-04-07	1130	1	5	0	0	128	105.0	40.00	10.0	141.1
82-06-29	1315	1	248	0	0	101	83.0	29.50	7.4	104.1
82-08-09	1450	1	92	0	0	109	89.0	33.50	8.7	119.5
82-09-20	1200	1	268	0	0	116	95.0	35.90	9.5	128.8
82-10-25	1050	1	13	0	0	116	95.0	35.60	9.2	126.8
82-11-18	1150	1	2	0	0	128	105.0	39.50	10.0	139.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-01-28	1250	1	9.2	1.3	13.0	17	36	4.1	183	006
82-04-07	1130	1	12.0	1.1	15.0	05	36	4.0	181	
82-06-29	1315	1	4.5	7	4.4	08	20	3.5	120	012
82-08-09	1450	1	7.5	9	8.1	10	28	3.3	143	022
82-09-20	1200	1	6.6	8	6.9	10	29	3.6	149	005
82-10-25	1050	1	8.6	1.0	10.0	14	31	3.5	156	005
82-11-18	1150	1	12.0	1.6	14.0	14	30	3.8	174	006

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10LA0003
MACKENZIE RIVER ABOVE ARCTIC RED RIVER NORTHWEST TERRITORIES

LAT. 67D 21M 29S LONG. 133D 33M 29S

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-01-28	1250	1	.018	.012	.13	.24	L .01	.24	3.8	.21
82-06-29	1315	1	.260	.250	.06	.18	.35	.53	5.8	4.70
82-08-09	1450	1	.067	.045	.05	.16	.11	.27	4.1	1.20
82-09-20	1200	1	.140	.130	.04	.19	.43	.62	5.6	5.20
82-10-25	1050	1	.020	.015	.04	.18	L .01	.18	4.7	.52
82-11-18	1150	1	.006	L .006	.06	.39	.08	.47	5.3	.46

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-28	1250	1	4.0	.08	L .0005	L .0005	L .01	.23	--	L .004
82-04-07	1130	1	-	.05	L .0005	L .0005	L .01	.14	L .001	L .004
82-06-29	1315	1	10.5		L .0005	L .0005	.15	4.00	.013	.005
82-08-09	1450	1	5.3	.04	L .0005	L .0005	.05	.93	.004	L .004
82-09-20	1200	1	10.8	.06	L .0005	L .0005	--		.016	L .004
82-10-25	1050	1	5.2	.07	L .0005	L .0005	.01	.30	.002	L .004
82-11-18	1150	1	5.8	.06	L .0005	L .0005	L .01	.09	.002	L .004

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-01-28	1250	1	-	L .001		.004	.05	L .001		
82-04-07	1130	1	.005	L .001	L .002	L .002	.05	L .001		
82-06-29	1315	1	.020	.014	.005	.013	.15	L .001		
82-08-09	1450	1	.016	.003	L .002	L .002	.10	L .001		
82-09-20	1200	1	.039	.014	L .002	.014	.14	L .001		
82-10-25	1050	1	.003	L .001	L .002	L .002	L .05	L .001		
82-11-18	1150	1	.012	L .001	L .002	L .002	.07	L .001		

FOOTNOTE L LESS THAN DETECTION LIMIT G GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L PLUS PETIT QUE LA LIMITE DE DETECTION G PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10MC0001 LAT. 67D 13M 14S LONG. 134D 56M 44S
PEEL RIVER ABOVE FORT MCPHERSON. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-01-20	1300	1	0	23.0	378.	426.	7.8	7.8	1.0	10.
82-04-07	1130	1	.0	20.5	--	387.	7.3	7.7	.6	5.
82-05-10	1420	1	.0	21.2	--	377.	--	7.8	3.6	5.
82-06-29	1515	1	18.0	22.6	239.	259.	7.8	7.8	83.0	20.
82-08-09	1800	1	10.0	26.1	283.	294.	7.9	8.1	46.0	30.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-01-20	1300	1	2	0	0	194.	159.0	56.90	17.5	214.1
82-04-07	1130	1	1	0	0	183.	150.0	53.50	17.1	204.0
82-05-10	1420	1	.	0	0	177.	145.0	48.20	16.5	188.3
82-06-29	1515	1	153	0	0	113.	93.0	35.80	10.8	133.9
82-08-09	1800	1	117	0	0	134.	110.0	41.10	12.9	155.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-01-20	1300	1	5.3	.6	4.2	.15	54	4.3	238.	.004
82-04-07	1130	1	5.3	.5	4.5	L.05	46	4.0	221.	L.003
82-05-10	1420	1	5.0	.5	4.2	.06	48	3.8	213.	.006
82-06-29	1515	1	3.2	.5	1.5	.08	38	3.2	149.	.005
82-08-09	1800	1	3.9	.6	1.6	.09	43	3.4	173.	.018

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-01-20	1300	1	.006	L.006	.16	.22	L.01	.22	1.1	.31
82-04-07	1130	1	.006	L.006	.19	.21	L.01	.21	1.1	.09
82-05-10	1420	1	.020	.014	.16	.17	L.01	.17	1.5	.16
82-06-29	1515	1	.170	.160	.08	.18	.38	.56	4.8	4.60
82-08-09	1800	1	.100	.080	.08	.17	.20	.37	4.1	2.30

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-20	1300	1	1.4	.05	L.0005	L.0005	-	--	L.001	.004
82-04-07	1130	1	1.2	.03	L.0005	.0010	.01	.07	L.001	L.004
82-05-10	1420	1	1.7	.04	L.0005	.0007	L.01	.18	.005	L.004
82-06-29	1515	1	9.4	.05	L.0005	L.0005	.10	3.20	.014	L.004
82-08-09	1800	1	6.4	.05	L.0005	L.0005	.05	1.40	.006	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-01-20	1300	1	.011	L.001	L.002	.003	.07	.001	--	-
82-04-07	1130	1	.004	L.001	L.002	L.002	.10	.001	--	-
82-05-10	1420	1	.006	L.001	L.002	.005	.06	L.001	-	
82-06-29	1515	1	.022	.014	.003	.012	.18	L.001	--	--
82-08-09	1800	1	.019	.006	L.002	.008	.14	L.001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10NC0001 LAT. 68D 37M 68S LONG. 128D 24M 28S
ANDERSON RIVER BELOW CARNWATH RIVER. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-04-14	1525	1	0	22.5	--	536.	--	7.6	4	10
82-06-08	0855	1	6.0	18.7	187.	192.	--	7.9	54.0	60
82-08-04	1510	1	15.0	20.1	--	224.	--	8.1	2.7	20

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-04-14	1525	1	2.	0.	0	177	145.0	48.20	20.8	206.0
82-06-08	0855	1	135.	0	0	82	67.0	21.20	7.0	81.8
82-08-04	1510	1	3	0.	0	102	84.0	24.30	9.8	101.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-04-14	1525	1	36.0	2.1	52.0	.22	58	4.8	309	005
82-06-08	0855	1	3.2	11.0	12.0	1.05	11	2.6	108	009
82-08-04	1510	1	7.4	9	8.7	12	18	2.1	122	L 003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-04-14	1525	1	022	017	18	44	01	44	6.3	08
82-06-08	0855	1	073	064	03	34	30	64	9.9	3.10
82-08-04	1510	1	014	012	L 01	27	05	32	7.2	39

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-04-14	1525	1	6.4	10	L 0005	L 0005	L 01	14	005	L 004
82-06-08	0855	1	13.0	09	L 0005	L 0005	09	1.60	011	L 004
82-08-04	1510	1	7.6	04	L 0005	L 0005				

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-04-14	1525	1	.006	L.001	L.002	.003	07	L.001	--	--
82-06-08	0855	1	.029	005	L.002	.007	06	L.001	--	--

FOOTNOTE L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10PB0001
COPPERMINE RIVER AT OUTLET OF POINT LAKE, NORTHWEST TERRITORIES LAT. 65D 25M 05 LONG. 114D 0M 20S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-01-21	1500	1	.5	23.3	--	20	--	7.2	1.1	10.
82-03-24	1420	1	5	18.8	--	15	--	6.4	4.5	5
82-04-27	1045	1	5	21.5	--	13	--	6.4	.5	5
82-08-12	1630	1	8.0	23.0	12.	12.	--	6.5	.2	10
82-09-11	1400	1	5.5	22.1	12.	13	--	6.9	.4	5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-01-21	1500	1	L 1	0	0	4	3.0	1.70	.8	7.5
82-03-24	1420	1	L 1	0	0	4	3.5	1.10	.6	5.2
82-04-27	1045	1	L 1	0	0	4	3.0	1.30	.6	5.7
82-08-12	1630	1	L 1	0	0	3	2.2	.80	.4	3.6
82-09-11	1400	1	-	0	0	4	3.1	1.10	.5	4.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-01-21	1500	1	.5	.4	.3	.08	1	3	7	.003
82-03-24	1420	1	.5	.4	.4	L .05	2	2	8	L .003
82-04-27	1045	1	.4	.4	.3	L .05	2	3	7	.006
82-08-12	1630	1	.7	.4	.2	L .05	1	3	5	.007
82-09-11	1400	1	.4	.4	.3	L .05	2	2	6	L .003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-01-21	1500	1	.011	.028	.05	.15	L .01	.15	1.8	.08
82-03-24	1420	1	.003	L .006	.07	.15	L .01	.15	2.1	.08
82-04-27	1045	1	.070	.064	.06	.22	L .01	.22	2.1	.08
82-08-12	1630	1	.004	L .006	.05	.14	L .01	.14	2.2	.07
82-09-11	1400	1	.003	L .006	.05	.13	L .01	.13	2.0	.15

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L * SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-21	1500	1	1.9	.02	L .0005	L .0005		--	.007	L .004
82-03-24	1420	1	2.2	L .02	.0016	.0005	L .01	.14	.014	L .004
82-04-27	1045	1	2.2	.02	L .0005	L .0005	L .01	L .04	.002	L .004
82-08-12	1630	1	2.3	L .02	L .0005	L .0005	.03	L .04	.002	L .004
82-09-11	1400	1	2.2	L .02	L .0005	L .0005	-	--	-	

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-01-21	1500	1	.010	L .001	L .002	L .002	L .05	.002	--	--
82-03-24	1420	1	.002	L .001	L .002	L .002	L .05	L .001	-	--
82-04-27	1045	1	.010	L .001	L .002	L .002	L .05	L .001	-	
82-08-12	1630	1	.009	L .001	L .002	L .002	L .05	L .001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION 00NW10QA0001
TREE RIVER ABOUT 10 MILES ABOVE MOUTH. NORTHWEST TERRITORIES LAT 67D 38M 8S LONG 111D 53M 30S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-01-21	1207	1	0	23.0	--	96	-	7.6	29.0	20
82-04-27	1430	1	0	21.4	--	88		7.6	85.0	5
82-08-12	0800	1	--	23.4	-	68	--	7.7	2.2	10
82-09-11	0800	1	3.0	21.5	--	72	8.0	7.7	1.3	5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-01-21	1207	1	27	0	0	54	44.0	11.10	5.8	51.6
82-04-27	1430	1	115	0	0	52	43.0	10.40	5.8	49.9
82-08-12	0800	1	2	0	0	40	33.0	7.90	4.4	37.8
82-09-11	0800	1	1	0	0	43	35.0	8.70	4.0	38.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-01-21	1207	1	1.2	4	1.8	10	2	1.6	50	008
82-04-27	1430	1	8	4	1.4	L 05	2	1.6	48	004
82-08-12	0800	1	7	3	9	L 05	2	1.1	37	L 003
82-09-11	0800	1	6	2	1.0	L 05	2	1.1	38	L 003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-01-21	1207	1	039	031	08	18	08	26	1.5	85
82-04-27	1430	1			06	24	14	38	1.8	1.10
82-08-12	0800	1	010	008	01	07	L 01	07	1.3	08
82-09-11	0800	1	004	L 006	01	11	L 01	11	1.6	18

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-21	1207	1	2.4	02	L 0005	L 0005		-	044	020
82-04-27	1430	1	2.9	02	L 0005	L 0005	.07	3.12	015	004
82-08-12	0800	1	1.4	L 02	L 0005	L 0005	L 01	15	--	L 004
82-09-11	0800	1	1.8	L 02	L 0005	L 0005	L 01	11	--	L 004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-01-21	1207	1	087	001	L 002	007	L 05	008	-	
82-04-27	1430	1	038	008	L 002	006	09	002	-	
82-08-12	0800	1	010	L 001	L 002	L 002	L 05	L 001	-	--
82-09-11	0800	1	005	L 001	L 002	L 002	L 05	L 001		-

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
NORTHWEST TERRITORIES

STATION - 00NW10QD0001 LAT. 67D 42M 29S LONG. 104D 8M 30S
ELLICE RIVER NEAR MOUTH. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-08-10	1600	1	15.0	23.1	17.	20.	--	6.7	2.9	10.
82-09-08	1800	1	3.5	21.7	20	21.	--	6.8	9.5	20.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-08-10	1600	1	4	0	0	4	3.0	.80	.4	3.6
82-09-08	1800	1	9.	0.	0	8	6.4	1.30	.8	6.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-08-10	1600	1	1.6	.4	2.0	L.05	2.	.3	9	.005
82-09-08	1800	1	1.4	.4	2.2	L.05	2.	1.3	14	.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-08-10	1600	1	.010	L.006	L.01	.10	.03	.13	2.2	.20
82-09-08	1800	1	.025	.022	L.01	.15	.07	.22	3.6	.43

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-08-10	1600	1	2.4	L.02	L.0005	L.0005	.01	.15	.002	L.004
82-09-08	1800	1	4.0	.02	L.0005	L.0005	L.01	.25	.003	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-08-10	1600	1	--	L.001	L.002	L.002	L.05	L.001	--	-
82-09-08	1800	1	--	L.001	L.002	.007	L.05	L.001	--	

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

LAT. 66D 4M 59S LONG. 96D 30M 0S

STATION - 00NW10RC0001
BACK RIVER BELOW DEEP ROSE LAKE. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-05-04	1415	1	.0	20.8	28.	29.	--	5.5	.3	5.
82-07-19	1030	1	3.0	23.9	17	16.	--	6.7	.8	10.
82-08-27	1400	1	2.0	20.0	16.	15.	5.8	6.7	5.0	10.

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-05-04	1415	1	1.	0.	0	8.	6.5	2.40	.9	9.7
82-07-19	1030	1	1.	0.	0	6	4.9	1.40	.7	6.4
82-08-27	1400	1	3.	0.	0	5.	4.1	1.30	.6	5.7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-05-04	1415	1	.9	.8	1.4	L.05	2.	.2	13.	.004
82-07-19	1030	1	.5	.4	.7	L.05	2.	.4	9.	.013
82-08-27	1400	1	.5	.4	.8	L.05	1.	.4	8.	.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-05-04	1415	1	.070	.066	.16	.59	L.01	Q .60	2.6	.18
82-07-19	1030	1	--	--	.16	.27	.04	.31	2.3	.22
82-08-27	1400	1	--		.11	.23	L.01	.23	2.2	.24

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-05-04	1415	1	2.8	L.02	L.0005	L.0005	L.01	L.04	.002	.005
82-07-19	1030	1	2.5	.02	L.0005	L.0005	L.01	.05	.001	L.004
82-08-27	1400	1	2.4	L.02	L.0005	L.0005	.02	.21	.001	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-05-04	1415	1	.019	L.001	L.002	L.002	L.05	.001	--	--
82-07-19	1030	1	--	L.001	L.002	.002	L.05	L.001	--	--
82-08-27	1400	1	.007	L.001	L.002	L.002	L.05	L.001	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 01NN06MA0001 LAT 64D 19M 9S LONG. 96D 1M 49S
BAKER LAKE 1 6 KM FROM BAKER LAKE SETTLEMENT. NORTHWEST TERRITORIES

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073L TURBIDITY JTU	02021L COLOUR TRUE REL. UNITS
82-05-17	1600	1	.5	21 1	30.	32	6 7	6. 4	4	10
82-07-23	1600	1	3. 0	23. 7	56.	51.	--	7 0	.8	10.
82-09-02	1645	1	9. 0	19. 5	90	85.	5. 6	7 2	.7	10.

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	10401L RESIDUE NONFILTR. MG/L	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L
82-05-17	1600	1	1.	0	0	11	9. 0	3. 20	1. 2	12. 9
82-07-23	1600	1	1	0	0	9.	7. 3	2 60	1. 7	13. 5
82-09-02	1645	1	L1	0	0	12.	9. 4	3 30	2. 2	17. 3

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	11103L SODIUM DISSOLVED NA MG/L	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	15103L PHOSPHORUS TOTAL DISSOLVED P MG/L
82-05-17	1600	1	1 8	1 0	2 8	L 05	1	4	17	L. 003
82-07-23	1600	1	5 4	6	9. 7	08	3	4	27.	003
82-09-02	1645	1	9. 2	8	16 0	L 05	3	L 1	041	.003

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	15406L PHOSPHORUS TOTAL P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L
82-05-17	1600	1	009	0 006	12	53	07	60	3 1	41
82-07-23	1600	1	012	009	02	19	02	21	2 4	.14
82-09-02	1645	1	024	021	02	14	L 01	0 15	2 6	07

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104L ARSENIC DISSOLVED AS MG/L	34102L SELENIUM DISSOLVED SE MG/L	25304P MANGANESE EXTRBLE. MN MG/L	26304P IRON EXTRBLE. FE MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-05-17	1600	1	3 5	03	L 0005	L 0005	L 01	09	002	005
82-07-23	1600	1	2 5	02	L 0005	L 0005	L 01	10	003	L 004
82-09-02	1645	1	2 7	L 02	L 0005	L 0005	L 01	04	L 001	L 004

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	30020P ZINC TOTAL RECOVERABLE ZN MG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L
82-01-22	1200	7	--	-	--	--	--	--	10	0015
82-05-17	1600	1	.016	L 001	L 002	L 002	L. 05	L 001	--	--
82-07-23	1600	1	--	L 001	L 002	L 002	L. 05	L 001		--
82-09-02	1645	1	.003	L 001	L 002	L 002	L 05	L 001	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	01502P TRITIUM RADIATION H-3 BQ/L	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE
82-01-22	1200	7	14. 8300	.0052	0030	1.

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

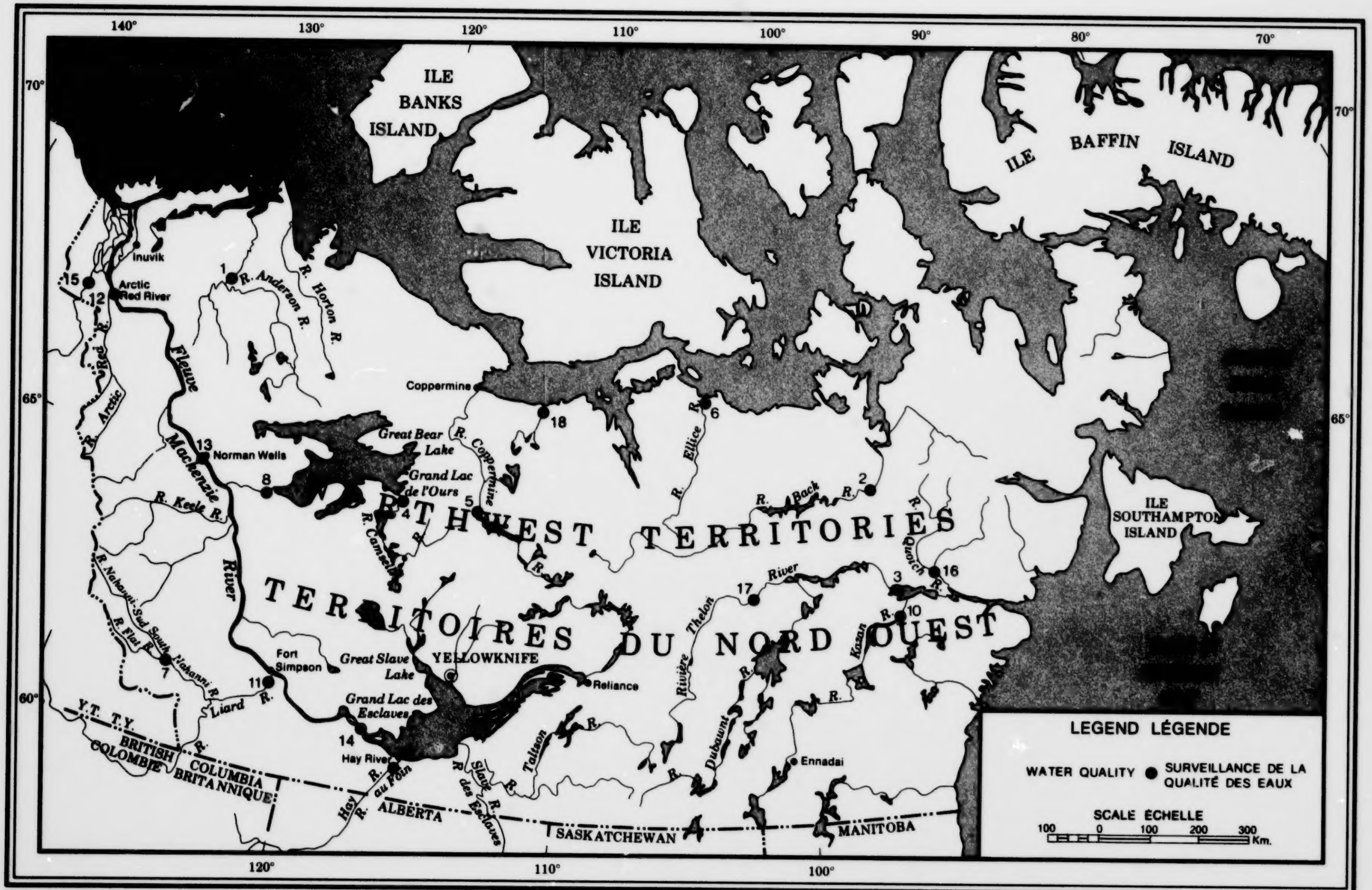
Alphabetical Station Index
Index alphabétique des stations

Location Description	Station Number / Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
ANDERSON RIVER BELOW CARNWATH RIVER, NORTHWEST TERRITORIES	00NW10NC0001 97900S001	68	38	0	128	24	30	179	1
BACK RIVER BELOW DEEP ROSE LAKE, NORTHWEST TERRITORIES	00NW10RC0001 97900S001	66	5		96	30		183	2
BAKER LAKE 1 MILE FROM BAKER LAKE SETTLEMENT, NORTHWEST TERRITORIES	01NW06MA0001 97900S001	64	19	10	96	1	50	184	3
CAMSELL RIVER AT OUTLET OF CLUT LAKE, NORTHWEST TERRITORIES	00NW10JA0001 97900S002	65	36	0	117	45	30	173	4
COPPERMINE RIVER AT OUTLET OF POINT LAKE, NORTHWEST TERRITORIES	00NW10PB0001 97900S001	65	25	0	114	0	30	180	5
ELLICE RIVER NEAR MOUTH, NORTHWEST TERRITORIES	00NW10QD0001 97900S001	67	42	30	104	8	30	182	6
FLAT RIVER NEAR MOUTH, NORTHWEST TERRITORIES	00NW10EA0004 97900S003	61	32	0	125	24	21	170	7
GREAT BEAR RIVER AT OUTLET OF GREAT BEAR LAKE NEAR FORT FRANKLIN, NORTHWEST TERRITORIES	00NW10JC0001 97900S003	65	8	0	123	31	0	174	8
HAY RIVER NEAR HAY RIVER NORTHWEST TERRITORIES	00NW07OB0001 97900S001	60	44	45	115	51	20	168	9
KAZAN RIVER ABOVE KAZAN FALLS, NORTHWEST TERRITORIES	00NW06LC0001 97900S001	63	39	0	95	51	15	166	10
LIARD RIVER ABOVE FORT SIMPSON, NORTHWEST TERRITORIES	00NW10ED0002 97900S002	61	44	24	121	13	11	171	11
MACKENZIE RIVER ABOVE ARCTIC RED RIVER NORTHWEST TERRITORIES	00NW10LA0003	67	21	30	133	33	30	176	12
MACKENZIE RIVER AT NORMAN WELLS, NORTHWEST TERRITORIES	00NW10KA0001 97900S001	65	16	54	126	50	57	175	13
MACKENZIE RIVER NEAR FORT PROVIDENCE, NORTHWEST TERRITORIES	00NW10FB0001	61	15	0	118	3	0	172	14
PEEL RIVER ABOVE FORT MCPHERSON, NORTHWEST TERRITORIES	00NW10MC0001 97900S002	67	13	15	134	56	45	178	15
QUOICH RIVER NEAR BAKER LAKE, NORTHWEST TERRITORIES	00NW06MB0001 97900S001	64	27	30	94	7	10	167	16

Location Description	Station Number Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
THELON RIVER ABOVE THELON BLUFFS, NORTHWEST TERRITORIES	**00NW06JC0001** 97900S002	64	32	10	101	23	50	165	17
TREE RIVER ABOUT 10 MILES ABOVE MOUTH, NORTHWEST TERRITORIES	**00NW10QA0001** 97900S001	67	38	10	111	53	30	181	18

Station Location Map

Carte des stations



WATER QUALITY BRANCH MONITORING STATIONS 1982
STATIONS DE SURVEILLANCE DE LA DIRECTION DE LA QUALITÉ DES EAUX 1982

SASKATCHEWAN

Detailed Data / Données détaillées

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05EF0001
NORTH SASKATCHEWAN RIVER AT HWY 3 BRIDGE. SASKATCHEWAN
(SAMPLES SINCE OCTOBER 1982 COLLECTED AT LEA PARK. ALBERTA)

LAT. 53D 31M 0S LONG. 109D 36M 38S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-20	1345	462	.0	18.2	419.	419.	7.8	7.7	..	2.3
82-02-16	1010	462	.0	17.5 61R	376.	369. 41R	7.9	7.6 01R	--	1.8 73R
82-03-17	1530	462	.0	20.2	356.	353	7.5	7.6	--	2.2
82-04-21	1300	462	3.5	22.8	358.	345.	7.9	7.7	9.7	5.5
82-05-12	1205	462	10.0	21.2	339.	317.	8.1	8.0	145.0	68.0
82-06-16	1000	462	19.0	22.9	355.	330.	8.3	8.2	32.0	19.0
82-07-14	1000	462	18.5	25.8	274	258.	7.9	-	320.0	140.0
82-08-25	1105	462	14.5	23.6	361.	310.	8.6	8.7	4.0	2.7
82-09-22	1100	462	13.0	15.8	317.	284.	8.7	8.8	4.0	2.8
82-10-20	1145	462	4.0	14.7	342.	310.	8.3	8.4	3.2	3.5
82-11-10	1145	462	.0	17.4	360	337.	8.3	8.3	2.9	2.8
82-12-15	1125	462	.0	12.1	380.	349.	7.8	7.8	1.8	2.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-20	1345	462	10.	2.	1.	.001	320	140	..	9.4
82-02-16	1010	462	10 21R	1. 01R	L1 01R	L.001 17I	170 02U	38 12U		9.1
82-03-17	1530	462	5	3	2.	L.001	270	34	--	8.1
82-04-21	1300	462	5.	11.	8.	.006	114	70	-	9.7
82-05-12	1205	462	30.	174	159.	.010	720	30	--	10.1
82-06-16	1000	462	30	64	57.	.020	30	28	--	8.4
82-07-14	1000	462	50	296	274	.010	3000	122	-	7.2
82-08-25	1105	462	20	7	6.	.008	12.	10	-	[illegible].1
82-09-22	1100	462	20	9.	7	.040	10	2	--	12.0
82-10-20	1145	462	10	8	5	.010	250	8	--	12.1
82-11-10	1145	462	10.	2	1	.007	20	L2	-	14.6
82-12-15	1125	462	10	3	1	.002	150	16	-	12.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-20	1345	462	0	6	194	159.0	55.50	16.9	208.2	7.6
82-02-16	1010	462	0	.0 51R	171	140.0 01R	50.90 03R	14.9 02P	188.4	7.6 03R
82-03-17	1530	462	0	0	159	130.0	45.40	14.2	171.8	7.9
82-04-21	1300	462	0	0	140	115.0	41.70	13.2	158.5	13.0
82-05-12	1205	462	0	0	146	120.0	37.90	11.3	141.2	11.0
82-06-16	1000	462	0	0	159.	130.0	43.20	12.1	157.7	8.6
82-07-14	1000	462		0	--	105.0	35.90	9.4	128.3	4.6
82-08-25	1105	462	4	3.6	162	140.0	45.80	14.1	172.4	9.4
82-09-22	1100	462	3	2.3	147.	125.0	42.80	12.5	158.3	6.8
82-10-20	1145	462	1	7	163.	135.0	46.00	12.7	167.2	7.2
82-11-10	1145	462	0	0	171	140.0	42.30	12.6	157.5	9.0
82-12-15	1125	462	0.	0	183	150.0	50.30	14.3	184.5	6.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-20	1345	462	1.4	4.7	.22	52.	5.5	239	4.000	.003
82-02-16	1010	462	1.1 03R	5.1 06R	.16 05R	44. 06R	5.2 05R	213.	L1.000	.003 04W
82-03-17	1530	462	1.2	6.4	.15	44	4.4	202.	L1.000	.002
82-04-21	1300	462	1.9	11.0	.19	46.	4.2	200.	L1.000	.002
82-05-12	1205	462	3.1	4.4	.09	42	5.0	187.	--	.005
82-06-16	1000	462	1.6	2.7	.13	40.	4.2	190	--	.002
82-07-14	1000	462	1.3	1.3	.12	26	6.2	148.	-	.005
82-08-25	1105	462	1.6	3.6	.17	35.	1.2	195.	--	.001
82-09-22	1100	462	1.1	2.9	.12	34.	--	--	-	.002
82-10-20	1145	462	1.2	3.4	.13	36.	2.6	190.		.002
82-11-10	1145	462	1.3	4.3	.20	41.	1.7	196.	-	.001
82-12-15	1125	462	1.2	2.9	.15	46	4.6	216.	L1.000	.003

STATION - 00SA05EF0001 LAT. 53D 31M 05 LONG. 109D 36M 38S
NORTH SASKATCHEWAN RIVER AT HWY 3 BRIDGE, SASKATCHEWAN
(SAMPLES SINCE OCTOBER 1982 COLLECTED AT LEA PARK, ALBERTA)

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-20	1345	462	110	.100	010	.36	86	.83	L.01	83
82-02-16	1010	462	.120 06R	110 03V	010 01R	47 10V	.77 51V	.74 51R	L.01 02R	--
82-03-17	1530	462	.150	.130	020	.62	.88	.89	04	.93
82-04-21	1300	462	.200	160	040	.42	84	.83	10	.93
82-05-12	1205	462	.230	.048	180	.43	.72	69	46	1.20
82-06-16	1000	462	.130	.025	.100	.34	.45	47	32	79
82-07-14	1000	462	440	023	420	27	45	49	45	94
82-08-25	1105	462	072	039	033	L.01	.17	.18	14	.32
82-09-22	1100	462	.066	008	058	L.01	12	12	.22	.34
82-10-20	1145	462	071	053	018	.27	39	39	07	.46
82-11-10	1145	462	.050	037	013	24	39	37	L 01	37
82-12-15	1125	462	095	090	L.006	.52	-	.61	L 01	.61

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-20	1345	462	L 1	098	2.3	.81	3.1	08 05D	L.0005	L 0005
82-02-16	1010	462	L 1 06W	110 56V	2.2 04R	25 02R	2.5	07 05V	.0005 04V	L 0005 02V
82-03-17	1530	462	6	130	2.0	.30	2.3	12 05D	0005	L 0005
82-04-21	1300	462	5	160	3.0	.65	3.7	10 05D	L 0005	L 0005
82-05-12	1205	462	L 1	034	6.8	5.40	12.2	10 05D	0006	L 0005
82-06-16	1000	462	L 1	023	5.2	2.50	7.7	07 05D	0006	L 0005
82-07-14	1000	462	L 1	022	7.9	5.70	13.6	09 05D	0007	L 0005
82-08-25	1105	462	L 1	034	4.8	79	5.6	06 05D	0007	L 0005
82-09-22	1100	462	L 1	L 003	2.7	1.20	3.9	03 05D	L 0005	L 0005
82-10-20	1145	462	L 1	034	3.7	52	4.2	05 05D	L 0005	L 0005
82-11-10	1145	462	L 1	032	3.0	30	3.3	03 05D	L 0005	L 0005
82-12-15	1125	462	4	086	3.3	17	3.5	04 05D	L 0005	L 0005

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-20	1345	462	L 06			L 01	-	L 04	L 02	L 001
82-02-16	1010	462	L 06 02W	-		L 01 04I		L 04 04I	L 02 11W	L 001 20W
82-03-17	1530	462	L 06	-		L 01	--	L 04	L 02	L 001
82-04-21	1300	462	12	-	-	L 01	-	L 04	L 02	001
82-05-12	1205	462	68	-	--	L 01		04	L 02	010
82-06-16	1000	462	26	--		L 01		L 04	L 02	002
82-07-14	1000	462	72	-	--	L 01	-	.06	02	016
82-08-25	1105	462	04	--	--	L 01	-	L 04	L 02	L 001
82-09-22	1100	462	06	--	-	L 01		L 04	L 02	001
82-10-20	1145	462	15	-	--	L 01	--	04	L 02	L 001
82-11-10	1145	462	06	--	--	L 01		L 04	L 02	L 001
82-12-15	1125	462	08	--	-	L 01		L.04	L 02	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-20	1345	462	L 015	L.002	004	002	.012	L 001	08	L 004
82-02-16	1010	462	L.015 02W	L 002 20W	006 20W	.004 20W	013 20W	L 001 20W	07 20W	L.004 20W
82-03-17	1530	462	L 015	L.002	L 002	.001	.013	L 001	08	L.004
82-04-21	1300	462	L 015	L.002	006	L.001	.006	L 001	05	L.004
82-05-12	1205	462	L 015	L 002	007	005	014	L.001	14	L.004
82-06-16	1000	462	L.015	L.002	004	005	010	L 001	11	L 004
82-07-14	1000	462	L.015	004	016	014	.025	L.001	18	.005
82-08-25	1105	462	L.015	L.002	L 002	002	--	L.001	08	L.004
82-09-22	1100	462	L 015	L 002	L 002	.001	.004	L.001	.08	L.004
82-10-20	1145	462	L 015	L 002	L 002	.001	003	L.001	05	L.004
82-11-10	1145	462	L.015	L.002	L 002	.001	005	L.001	.08	L.004
82-12-15	1125	462	L.015	L 002	.005	002	.001	L 001	.06	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05EF0001 LAT. 53D 31M 0S LONG. 109D 36M 38S
NORTH SASKATCHEWAN RIVER AT HWY 3 BRIDGE, SASKATCHEWAN
(SAMPLES SINCE OCTOBER 1982 COLLECTED AT LEA PARK, ALBERTA)

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-20	1345	462	L.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-02-16	1010	462	.001 35W	L1.0	L1.0	L.001 11R	.004 75R	L.001 70R	L.001 30R	L.002 10R
82-03-17	1530	462	.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-04-21	1300	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-05-12	1205	462	L.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-06-16	1000	462	.001	L1.0	L1.0	L.001	.004	.001	L.001	L.002
82-07-14	1000	462	.003	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-08-25	1105	462	.002	L1.0	L1.0	L.001	.001	L.001	L.001	L.002
82-09-22	1100	462	.003	L1.0	L1.0	L.001	.001	L.001	L.001	L.002
82-10-20	1145	462	.001	--	--	L.001	L.001	L.001	L.001	L.002
82-11-10	1145	462	.003	--	--	L.001	.003	.003	L.001	L.002
82-12-15	1125	462	.001	--	--	L.001	.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-20	1345	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-16	1010	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-03-17	1530	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-21	1300	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-12	1205	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-16	1000	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-14	1000	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-25	1105	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-22	1100	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-20	1145	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-10	1145	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-15	1125	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-20	1345	462	L.002	L.0020	L.001	L.003	L.002	L.2	400	L.009
82-02-16	1010	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	300 00W	L.009 50W
82-03-17	1530	462	L.002	L.0020	L.001	L.003	L.002	L.2	100	L.009
82-04-21	1300	462	L.002	L.0020	L.001	L.003	L.002	L.2	200	L.009
82-05-12	1205	462	L.002	L.0020	L.001	L.003	L.002	L.2	100	L.009
82-06-16	1000	462	L.002	L.0020	L.001	L.003	L.002	L.2	100	L.009
82-07-14	1000	462	L.002	L.0020	L.001	L.003	L.002	L.2	100	L.009
82-08-25	1105	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-22	1100	462	L.002	L.0020	L.001	L.003	L.002	L.2	100	L.009
82-10-20	1145	462	L.002	L.0020	L.001	L.003	L.002	L.2	300	L.009
82-11-10	1145	462	L.002	L.0020	L.001	L.003	L.002	L.2	300	L.009
82-12-15	1125	462	L.002	L.0020	L.001	L.003	L.002			

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-20	1345	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-16	1010	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-03-17	1530	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-21	1300	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-12	1205	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-16	1000	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-07-14	1000	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-25	1105	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-22	1100	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-20	1145	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-10	1145	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-15	1125	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05FE0001 LAT. 52D 56M 25S LONG. 109D 52M 23S
BATTLE RIVER NEAR UNWIN, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-20	1045	462	.0	17.8	958.	920.	7.6	7.4	--	6.6
82-02-16	1530	462	.0	17.5	823.	769.	7.6	7.4	--	5.2
82-03-17	1230	462	.0	19.7	895.	842.	7.5	7.4	--	3.7
82-04-21	1000	462	2.0	23.1	657.	539.	8.5	8.0	19.0	16.0
82-05-12	0745	462	9.5	21.3 61R	420.	400. 41R	7.9	7.8 01R	G1000.0	200.0 73R
82-06-16	0740	462	18.0	22.9	593.	531.	8.3	8.2	42.0	33.0
82-07-14	0720	462	21.5	25.5	510.	480.	8.0	8.1	960.0	210.0
82-08-25	0850	462	15.0	23.4	523.	456.	8.3	8.3	83.0	47.0
82-09-22	0845	462	10.5	15.9	655.	591.	8.3	8.3	21.0	19.0
82-10-20	0900	462	1.0	14.4	706.	636.	8.5	8.3	9.0	9.1
82-11-10	0915	462	.0	17.2	763.	715.	8.4	8.2	8.6	8.0
82-12-15	0820	462	.0	11.2	819.	739	7.8	7.7	7.8	9.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-20	1045	462	60	6.	4	.006	8.	8	--	.7
82-02-16	1530	462	60.	6.	3.	.001	28.	6.	--	4
82-03-17	1230	462	30.	3.	2.	.001	4.	L2.	--	1.2
82-04-21	1000	462	40.	32.	28.	.017	L10.	4	--	12.5
82-05-12	0745	462	80. 21R	692. 01R	628. 01R	.040 17T	L20. 02U	L20. 12U	--	8.2
82-06-16	0740	462	50.	68	58	.010	160.	75.	--	7.4
82-07-14	0720	462	120	492.	444	.050	600.	600	--	6.3
82-08-25	0850	462	70	132.	117.	.040	450.	26.	--	8.1
82-09-22	0845	462	40.	36.	29.	.020	--	18.	--	9.2
82-10-20	0900	462	40.	20.	16.	.007	--	6	--	11.8
82-11-10	0915	462	50	15.	12.	.020	10.	8.	--	13.6
82-12-15	0820	462	30.	10.	7.	.030	2.	2.	--	8.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-20	1045	462	0	.0	525.	431.0	88.20	35.0	364.3	85.0
82-02-16	1530	462	0	.0	445.	365.0	78.40	30.0	319.3	70.0
82-03-17	1230	462	0.	.0	457.	375.0	77.60	30.8	320.6	85.0
82-04-21	1000	462	0.	.0	262.	215.0	41.80	19.1	183.0	80.0
82-05-12	0745	462	0	.0 51R	152.	125.0 01R	31.10 03R	12.1 02R	127.5	35.0 03R
82-06-16	0740	462	0	.0	256.	210.0	47.30	16.4	185.6	48.0
82-07-14	0720	462	0.	.0	207.	170.0	33.00	11.8	131.0	55.0
82-08-25	0850	462	0.	.0	250.	205.0	46.60	16.9	185.9	37.0
82-09-22	0845	462	0	.0	317.	260.0	56.00	20.1	222.6	65.0
82-10-20	0900	462	0	.0	335.	275.0	57.20	21.9	233.0	80.0
82-11-10	0915	462	0	.0	378.	310.0	56.90	23.3	238.0	80.0
82-12-15	0820	462	0.	.0	396.	325.0	60.50	26.7	261.0	79.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-20	1045	462	10.0	14.0	.29	90.	13.0	594.	5.000	.004
82-02-16	1530	462	8.6	12.0	.20	76.	13.0	507.	L1.000	.003
82-03-17	1230	462	7.9	16.0	.20	100.	14.0	556.	L1.000	.006
82-04-21	1000	462	6.3	7.9	.18	115.	5.2	404.	L1.000	.005
82-05-12	0745	462	8.0 03R	7.1 06R	.11 05R	66. 06R	6.8 05R	241	--	.022 04N
82-06-16	0740	462	11.0	9.0	.17	76	5.4	339.	--	.003
82-07-14	0720	462	8.9	6.6	.18	70.	7.4	295.	--	.011
82-08-25	0850	462	7.9	5.9	.17	50.	11.0	298.	--	.005
82-09-22	0845	462	8.8	9.1	.19	70	11.0	396	--	.004
82-10-20	0900	462	7.8	10.0	.18	86.	6.3	434.	--	.003
82-11-10	0915	462	8.6	10.0	.24	94	7.5	466.	--	.003
82-12-15	0820	462	7.6	12.0	.19	95.	6.4	482.	L1.000	.004

STATION - 00SA05FE0001 LAT. 52D 56M 25S LONG. 109D 52M 23S
BATTLE RIVER NEAR UNWIN, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-20	1045	462	.050	.023	.027	.22	1.20	1.20	.09	1.30
82-02-16	1530	462	.051	.026	.025	.06	.93	91	.09	1.00
82-03-17	1230	462	.034	.017	.017	.24	.80	.80	.07	.87
82-04-21	1000	462	.120	.032	.088	.33	.81	.84	.35	1.20
82-05-12	0745	462	.750 06R	027 03V	.720 01R	1.30 10V	2.00 51V	2.10 51R	2.00 02R	--
82-06-16	0740	462	.130	.015	.120	L.01	.60	.65	.55	1.20
82-07-14	0720	462	.390	.030	.360	33	.96	1 10	1.40	2.50
82-08-25	0850	462	.220	.048	.170	.06	.78	78	88	1.60
82-09-22	0845	462	.110	.020	.090	L.01	.65	.65	.33	.98
82-10-20	0900	462	.070	.022	.048	L.01	.64	.64	.17	.81
82-11-10	0915	462	.074	.023	.051	L.01	.70	.67	.20	.87
82-12-15	0820	462	.063	017	.046	.04	.70	.68	.23	.91

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-20	1045	462	L.1	L.003	16.0	.62	16.6	.29 05D	.0005	L.0005
82-02-16	1530	462	L.1	.012	15.0	.56	15.6	.22 05D	0010	L.0005
82-03-17	1230	462	4	.009	11.0	.46	11.5	24 05D	0007	L.0005
82-04-21	1000	462	L.1	.015	9.6	1.70	11.3	.24 05D	0010	L.0005
82-05-12	0745	462	.5 06W	.006 56V	9.5 04R	16.00 02R	25.5	.22 05D	.0007 04V	L.0005 02V
82-06-16	0740	462	L.1	L.003	14.0	3.40	17.4	16 05D	.0008	L.0005
82-07-14	0720	462	L.1	L.003	14.0	9.90	23.9	19 05D	0013	L.0005
82-08-25	0850	462	L.1	028	16.0	4.70	20.7	17 05D	0024	L.0005
82-09-22	0845	462	L.1	009	14.0	2.20	16.2	17 05D	.0015	L.0005
82-10-20	0900	462	L.1	L.003	13.0	1.20	14.2	19 05D	.0013	L.0005
82-11-10	0915	462	L.1	.007	15.0	1.30	16.3	15 05D	0010	L.0005
82-12-15	0820	462	L.1	.004	16.0	1.50	17.5	15 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-20	1045	462	L.06	--	-	22	--	.15	L.02	L.001
82-02-16	1530	462	13	--	-	39	--	.20	-	.001
82-03-17	1230	462	L.06	--	--	24	--	.05	L.02	L.001
82-04-21	1000	462	16	--	-	.04	--	08	L.02	.003
82-05-12	0745	462	1.10 02W	--	--	L.01 041	--	15 041	04 11W	034 20W
82-06-16	0740	462	.26	--	--	L.01	--	L.04	02	005
82-07-14	0720	462	.56	--	--	L.01	--	16	03	030
82-08-25	0850	462	16	--	-	01	--	14	L.02	--
82-09-22	0845	462	16	--	--	L.01	--	L.04	02	.003
82-10-20	0900	462	.37	--	--	L.01	--	L.04	L.02	L.001
82-11-10	0915	462	06	--	--	L.01	--	L.04	.02	001
82-12-15	0820	462	.18	--	--	.02	--	L.04	L.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-20	1045	462	L.015	L.002	.004	003	.011	L.001	15	L.004
82-02-16	1530	462	L.015	.002	.006	.002	.004	L.001	.11	L.004
82-03-17	1230	462	L.015	L.002	.002	.002	.001	L.001	.15	L.004
82-04-21	1000	462	L.015	L.002	.003	.007	.003	L.001	.06	L.004
82-05-12	0745	462	L.015 02W	009 20W	.029 20W	.022 20W	.056 20W	L.001 20W	.36 20W	010 20W
82-06-16	0740	462	L.015	L.002	.007	.007	.008	L.001	.11	L.004
82-07-14	0720	462	L.015	.009	.029	.024	.041	L.001	.20	.010
82-08-25	0850	462	L.015	L.002	--	--	--	L.001	.16	L.004
82-09-22	0845	462	L.015	L.002	.002	.004	.005	L.001	.12	L.004
82-10-20	0900	462	L.015	L.002	.002	.004	.002	L.001	.09	L.004
82-11-10	0915	462	L.015	L.002	.003	.005	.004	L.001	11	L.004
82-12-15	0820	462	L.015	L.002	.006	.005	.003	L.001	10	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05FE0001 LAT. 52D 56M 25S LONG. 109D 52M 23S
BATTLE RIVER NEAR UNWIN, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-20	1045	462	.002	L1.0	L1.0	L.001	.006	L.001	L.001	L.002
82-02-16	1530	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-03-17	1230	462	.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-04-21	1000	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-05-12	0745	462	.001 35W	L1.0 00W	L1.0 10W	L.001 11R	.004 75R	L.001 70R	L.001 30R	L.002 10R
82-06-16	0740	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-07-14	0720	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-08-25	0850	462	.004	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-09-22	0845	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-10-20	0900	462	.002	--	--	L.001	.003	L.001	L.001	L.002
82-11-10	0915	462	.004	--	--	L.001	.008	.001	L.001	L.002
82-12-15	0820	462	.003	--	--	L.001	.003	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-20	1045	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-16	1530	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-17	1230	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-21	1000	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-12	0745	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-06-16	0740	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-14	0720	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-25	0850	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-22	0845	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-20	0900	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-10	0915	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-15	0820	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-20	1045	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-16	1530	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-17	1230	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-21	1000	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-12	0745	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-06-16	0740	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-14	0720	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-25	0850	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-22	0845	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-20	0900	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-10	0915	462	L.002	L.0020	L.001	L.003	L.002	L.2	.020	L.009
82-12-15	0820	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-20	1045	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-16	1530	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-17	1230	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-21	1000	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-12	0745	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-06-16	0740	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-14	0720	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-25	0850	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-22	0845	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-20	0900	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-11-10	0915	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-12-15	0820	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JK0003 LAT. 50D 47M 3S LONG. 104D 17M 35S
QU'APPELLE RIVER ABOVE PASQUA LAKE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C	02061L TEMP. WATER DEG C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-01	1200	138	--	--	1830.	--	7.6	--	22.0	--
82-01-04	1200	138	--	--	1740.	--	7.3	--	21.0	--
82-01-07	1200	138	--	--	1790.	--	7.3	--	22.0	--
82-01-10	1200	138	--	--	1940.	--	7.7	--	24.0	--
82-01-13	1200	138	--	--	1990.	--	7.8	--	22.0	--
82-01-16	1200	138	--	--	1880.	--	7.9	--	19.0	--
82-01-19	1200	138	--	--	1740.	--	7.8	--	22.0	--
82-01-22	1200	138	--	--	1760.	--	7.6	--	26.0	--
82-01-25	1200	138	--	--	1690.	--	7.6	--	20.0	--
82-01-28	1200	138	--	--	1680.	--	7.5	--	20.0	--
82-01-31	1200	138	--	--	1680.	--	7.4	--	20.0	--
82-02-03	1200	138	--	--	1590.	--	7.3	--	16.0	--
82-02-06	1200	138	--	--	1510.	--	7.3	--	12.0	--
82-02-09	1200	138	--	--	1440.	--	7.3	--	12.0	--
82-02-12	1200	138	--	--	1410.	--	7.8	--	12.0	--
82-02-15	1200	138	--	--	1490.	--	7.6	--	12.0	--
82-02-18	1230	138	--	--	1560.	--	7.5	--	11.0	--
82-02-21	1200	138	--	--	1540.	--	7.3	--	8.8	--
82-02-24	1200	138	--	--	1580.	--	7.1	--	8.8	--
82-02-27	1200	138	--	--	1610.	--	7.0	--	9.6	--
82-03-02	1200	138	--	--	1560.	--	7.3	--	10.0	--
82-03-05	1200	138	--	--	1610.	--	7.3	--	11.0	--
82-03-08	1200	138	--	--	1650.	--	7.3	--	11.0	--
82-03-11	1200	138	--	--	1680.	--	7.6	--	11.0	--
82-03-14	1200	138	--	--	1600.	--	7.7	--	12.0	--
82-03-17	1200	138	--	--	1540.	--	7.3	--	12.0	--
82-03-20	1200	138	--	--	1470.	--	7.7	--	12.0	--
82-03-23	1200	138	--	--	1530.	--	7.4	--	14.0	--
82-03-26	1200	138	--	--	1580.	--	7.2	--	14.0	--
82-03-29	1030	138	--	--	1460.	--	7.1	--	11.0	--
82-04-01	1000	138	--	--	1340.	--	7.2	--	14.0	--
82-04-04	1200	138	--	--	1440.	--	7.3	--	9.8	--
82-04-07	1200	138	--	--	1540.	--	7.3	--	11.0	--
82-04-10	1200	138	--	--	1580.	--	7.7	--	18.0	--
82-04-13	1200	138	--	--	1060.	--	7.4	--	34.0	--
82-04-16	1200	138	--	--	260.	--	8.1	--	86.0	--
82-04-19	1200	138	--	--	520.	--	7.8	--	76.0	--
82-04-22	1100	138	--	--	530.	--	8.2	--	48.0	--
82-04-25	0959	138	--	--	430.	--	7.5	--	40.0	--
82-04-28	1200	138	--	--	320.	--	8.0	--	87.0	--
82-05-01	1200	138	--	--	340.	--	7.9	--	110.0	--
82-05-04	1200	138	--	--	320.	--	8.1	--	130.0	--
82-05-07	1200	138	--	--	330.	--	8.1	--	160.0	--
82-05-10	1200	138	--	--	360.	--	8.0	--	124.0	--
82-05-13	1200	138	--	--	390.	--	8.1	--	90.0	--
82-05-16	1200	138	--	--	410.	--	8.0	--	56.0	--
82-05-19	1200	138	--	--	470.	--	8.0	--	34.0	--
82-05-22	1200	138	--	--	500.	--	8.0	--	28.0	--
82-05-25	1200	138	--	--	610.	--	8.1	--	32.0	--
82-05-31	1200	138	--	--	670.	--	8.0	--	44.0	--
82-06-03	1200	138	--	--	920.	--	8.1	--	42.0	--
82-06-06	1200	138	--	--	830.	--	8.2	--	50.0	--
82-06-09	1200	138	--	--	770.	--	8.2	--	54.0	--
82-06-12	1200	138	--	--	780.	--	8.3	--	48.0	--
82-06-15	1200	138	--	--	760.	--	8.4	--	40.0	--
82-06-18	1200	138	--	--	760.	--	8.2	--	40.0	--
82-06-21	1200	138	--	--	900.	--	8.2	--	42.0	--
82-06-24	1200	138	--	--	880.	--	8.3	--	54.0	--
82-06-27	1200	138	--	--	850.	--	8.1	--	50.0	--
82-06-30	1200	138	--	--	850.	--	8.3	--	54.0	--
82-07-03	1200	138	--	--	830.	--	8.1	--	60.0	--
82-07-06	1000	138	--	--	860.	--	7.5	--	72.0	--
82-07-09	1200	138	--	--	900.	--	8.0	--	54.0	--
82-07-12	1200	138	--	--	800.	--	8.0	--	80.0	--
82-07-15	1100	138	--	--	760.	--	7.9	--	70.0	--
82-07-18	1200	138	--	--	860.	--	7.9	--	84.0	--
82-07-21	1300	138	--	--	900.	--	8.3	--	76.0	--
82-07-24	1200	138	--	--	1250.	--	8.2	--	82.0	--
82-07-27	1200	138	--	--	800.	--	8.0	--	84.0	--
82-07-30	1200	138	--	--	740.	--	8.0	--	90.0	--
82-08-02	1200	138	--	--	960.	--	8.0	--	86.0	--
82-08-05	1200	138	--	--	650.	--	8.2	--	120.0	--
82-08-08	1200	138	--	--	610.	--	8.2	--	160.0	--
82-08-11	1200	138	--	--	610.	--	8.1	--	100.0	--
82-08-14	1200	138	--	--	670.	--	8.1	--	96.0	--
82-08-17	1200	138	--	--	750.	--	7.9	--	74.0	--
82-08-20	1200	138	--	--	810.	--	8.1	--	74.0	--
82-08-23	1200	138	--	--	950.	--	8.1	--	82.0	--
82-08-26	1200	138	--	--	870.	--	7.8	--	56.0	--
82-08-29	1200	138	--	--	1050.	--	8.3	--	46.0	--
82-09-01	1200	138	--	--	920.	--	8.2	--	48.0	--
82-09-04	1200	138	--	--	1030.	--	8.2	--	56.0	--
82-09-07	1530	138	--	--	870.	--	7.8	--	75.0	--
82-09-10	1430	138	--	--	920.	--	7.5	--	53.0	--
82-09-13	1555	138	--	--	1110.	--	8.2	--	50.0	--
82-09-16	1230	138	--	--	1110.	--	7.7	--	30.0	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JK0003 QU'APPELLE RIVER ABOVE PASQUA LAKE. SASKATCHEWAN   LAT. 50D 47M 3S LONG. 104D 17M 35S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-09-19	0930	138	--	--	1110.	--	7.7	--	30.0	--
82-09-22	1145	138	--	--	1230.	--	7.9	--	28.0	--
82-09-25	1345	138	--	--	1457.	--	8.4	--	30.0	--
82-09-28	1745	138	--	--	1380.	--	7.7	--	28.0	--
82-10-01	1200	138	--	--	1480.	--	8.3	--	30.0	--
82-10-04	1200	138	--	--	1640.	--	8.3	--	28.0	--
82-10-07	1200	138	--	--	1390	--	8.0	--	26.0	--
82-10-10	1200	138	--	--	1630.	--	7.8	--	42.0	--
82-10-13	1200	138	--	--	1700.	--	8.1	--	42.0	--
82-10-16	1200	138	--	--	1980.	--	8.0	--	46.0	--
82-10-19	1600	138	--	--	1890.	--	8.2	--	44.0	--
82-10-22	1500	138	--	--	1930.	--	8.0	--	38.0	--
82-10-25	1500	138	--	--	2100.	--	8.1	--	32.0	--
82-10-28	1200	138	--	--	1950	--	8.0	--	130.0	--
82-10-31	1500	138	--	--	2080.	--	7.8	--	32.0	--
82-11-03	1500	138	--	--	2100.	--	8.1	--	24.0	--
82-11-06	1400	138	--	--	2220.	--	7.9	--	14.0	--
82-11-09	1400	138	--	--	2240.	--	8.1	--	12.0	--
82-11-12	1415	138	--	--	2280.	--	7.9	--	9.0	--
82-11-15	1500	138	--	--	2400.	--	8.0	--	7.4	--
82-11-18	1500	138	--	--	2400.	--	8.0	--	6.8	--
82-11-21	1600	138	--	--	2460.	--	8.0	--	8.0	--
82-11-24	1400	138	--	--	2480	--	8.1	--	8.4	--
82-11-27	1400	138	--	--	2550.	--	7.9	--	9.8	--
82-11-30	1500	138	--	--	2550.	--	8.0	--	9.8	--
82-12-03	1400	138	--	--	2520.	--	8.0	--	8.0	--
82-12-06	1500	138	--	--	2660.	--	8.0	--	8.0	--
82-12-09	1500	138	--	--	2400	--	8.0	--	11.0	--
82-12-12	1300	138	--	--	2380.	--	8.0	--	9.0	--
82-12-15	1300	138	--	--	2400.	--	7.8	--	9.2	--
82-12-18	1500	138	--	--	2420	--	7.9	--	20.0	--
82-12-21	1500	138	--	--	2400	--	8.1	--	8.2	--
82-12-24	1500	138	--	--	2400.	--	8.1	--	8.0	--
82-12-27	1500	138	--	--	2380	--	8.1	--	7.2	--
82-12-30	1300	138	--	--	2400	--	7.8	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-01	1200	138	--	7.	--	--	--	--	--	--
82-01-04	1200	138	--	23	--	--	--	--	--	--
82-01-07	1200	138	--	30	--	--	--	--	--	--
82-01-10	1200	138	--	35.	--	--	--	--	--	--
82-01-13	1200	138	--	24	--	--	--	--	--	--
82-01-16	1200	138	--	15	--	--	--	--	--	--
82-01-19	1200	138	--	30	--	--	--	--	--	--
82-01-22	1200	138	--	29.	--	--	--	--	--	--
82-01-25	1200	138	--	28	--	--	--	--	--	--
82-01-28	1200	138	--	16.	--	--	--	--	--	--
82-01-31	1200	138	--	22.	--	--	--	--	--	--
82-02-03	1200	138	--	20.	--	--	--	--	--	--
82-02-06	1200	138	--	18.	--	--	--	--	--	--
82-02-09	1200	138	--	12.	--	--	--	--	--	--
82-02-12	1200	138	--	9.	--	--	--	--	--	--
82-02-15	1200	138	--	11	--	--	--	--	--	--
82-02-18	1230	138	--	11	--	--	--	--	--	--
82-02-21	1200	138	--	9.	--	--	--	--	--	--
82-02-24	1200	138	--	10	--	--	--	--	--	--
82-02-27	1200	138	--	8.	--	--	--	--	--	--
82-03-02	1200	138	--	12.	--	--	--	--	--	--
82-03-05	1200	138	--	8.	--	--	--	--	--	--
82-03-08	1200	138	--	8	--	--	--	--	--	--
82-03-11	1200	138	--	7.	--	--	--	--	--	--
82-03-14	1200	138	--	6	--	--	--	--	--	--
82-03-17	1200	138	--	7.	--	--	--	--	--	--
82-03-20	1200	138	--	13.	--	--	--	--	--	--
82-03-23	1200	138	--	5.	--	--	--	--	--	--
82-03-26	1200	138	-	13.	--	--	--	--	--	--
82-03-29	1030	138	--	11.	--	--	--	--	--	--
82-04-01	1000	138	--	7.	--	--	--	--	--	--
82-04-04	1200	138	--	3.	--	--	--	--	--	--
82-04-07	1200	138	--	7.	--	--	--	--	--	--
82-04-10	1200	138	--	17.	--	--	--	--	--	--
82-04-13	1200	138	--	40.	--	--	--	--	--	--
82-04-16	1200	138	--	126.	--	--	--	--	--	--
82-04-19	1200	138	--	322.	--	--	--	--	--	--
82-04-22	1100	138	--	105.	--	--	--	--	--	--
82-04-25	0859	138	--	80.	--	--	--	--	--	--
82-04-28	1200	138	--	91.	--	--	--	--	--	--
82-05-01	1200	138	--	123.	--	--	--	--	--	--
82-05-04	1200	138	--	149.	--	--	--	--	--	--
82-05-07	1200	138	--	175.	--	--	--	--	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JK0003 LAT. 50D 47M 3S LONG. 104D 17M 35S
QU'APPELLE RIVER ABOVE PASQUA LAKE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO 02 MG/L
82-05-10	1200	138	--	154.	--	--	--	--	--	--
82-05-13	1200	138	--	101.	--	--	--	--	--	--
82-05-16	1200	138	--	68.	--	--	--	--	--	--
82-05-19	1200	138	--	37.	--	--	--	--	--	--
82-05-22	1200	138	--	38.	--	--	--	--	--	--
82-05-25	1200	138	--	47.	--	--	--	--	--	--
82-05-31	1200	138	--	71.	--	--	--	--	--	--
82-06-03	1200	138	--	66.	--	--	--	--	--	--
82-06-06	1200	138	--	82.	--	--	--	--	--	--
82-06-09	1200	138	--	87.	--	--	--	--	--	--
82-06-12	1200	138	--	78.	--	--	--	--	--	--
82-06-15	1200	138	--	67.	--	--	--	--	--	--
82-06-18	1200	138	--	65.	--	--	--	--	--	--
82-06-21	1200	138	--	68.	--	--	--	--	--	--
82-06-24	1200	138	--	94.	--	--	--	--	--	--
82-06-27	1200	138	--	99.	--	--	--	--	--	--
82-06-30	1200	138	--	84.	--	--	--	--	--	--
82-07-03	1200	138	--	102.	--	--	--	--	--	--
82-07-06	1000	138	--	126.	--	--	--	--	--	--
82-07-09	1200	138	--	80.	--	--	--	--	--	--
82-07-12	1200	138	--	143.	--	--	--	--	--	--
82-07-15	1100	138	--	123.	--	--	--	--	--	--
82-07-18	1200	138	--	155.	--	--	--	--	--	--
82-07-21	1300	138	--	157.	--	--	--	--	--	--
82-07-24	1200	138	--	139.	--	--	--	--	--	--
82-07-27	1200	138	--	151.	--	--	--	--	--	--
82-07-30	1200	138	--	162.	--	--	--	--	--	--
82-08-02	1200	138	--	165.	--	--	--	--	--	--
82-08-05	1200	138	--	207.	--	--	--	--	--	--
82-08-08	1200	138	--	331.	--	--	--	--	--	--
82-08-11	1200	138	--	169.	--	--	--	--	--	--
82-08-14	1200	138	--	167.	--	--	--	--	--	--
82-08-17	1200	138	--	131.	--	--	--	--	--	--
82-08-20	1200	138	--	98.	--	--	--	--	--	--
82-08-23	1200	138	--	151.	--	--	--	--	--	--
82-08-26	1200	138	--	112.	--	--	--	--	--	--
82-08-29	1200	138	--	76.	--	--	--	--	--	--
82-09-01	1200	138	--	80.	--	--	--	--	--	--
82-09-04	1200	138	--	92.	--	--	--	--	--	--
82-09-07	1530	138	--	158.	--	--	--	--	--	--
82-09-10	1430	138	--	97.	--	--	--	--	--	--
82-09-13	1555	138	--	87.	--	--	--	--	--	--
82-09-16	1230	138	--	55.	--	--	--	--	--	--
82-09-19	0930	138	--	56.	--	--	--	--	--	--
82-09-22	1145	138	--	57.	--	--	--	--	--	--
82-09-25	1345	138	--	54.	--	--	--	--	--	--
82-09-28	1745	138	--	47.	--	--	--	--	--	--
82-10-01	1200	138	--	60.	--	--	--	--	--	--
82-10-04	1200	138	--	47.	--	--	--	--	--	--
82-10-07	1200	138	--	40.	--	--	--	--	--	--
82-10-10	1200	138	--	74.	--	--	--	--	--	--
82-10-13	1200	138	--	68.	--	--	--	--	--	--
82-10-16	1200	138	--	76.	--	--	--	--	--	--
82-10-19	1800	138	--	82.	--	--	--	--	--	--
82-10-22	1500	138	--	70.	--	--	--	--	--	--
82-10-25	1500	138	--	49.	--	--	--	--	--	--
82-10-28	1200	138	--	483.	--	--	--	--	--	--
82-10-31	1500	138	--	61.	--	--	--	--	--	--
82-11-03	1500	138	--	33.	--	--	--	--	--	--
82-11-06	1400	138	--	24.	--	--	--	--	--	--
82-11-09	1400	138	--	32.	--	--	--	--	--	--
82-11-12	1415	138	--	42.	--	--	--	--	--	--
82-11-15	1500	138	--	18.	--	--	--	--	--	--
82-11-18	1500	138	--	12.	--	--	--	--	--	--
82-11-21	1600	138	--	11.	--	--	--	--	--	--
82-11-24	1400	138	--	15.	--	--	--	--	--	--
82-11-27	1400	138	--	17.	--	--	--	--	--	--
82-11-30	1500	138	--	20.	--	--	--	--	--	--
82-12-03	1400	138	--	15.	--	--	--	--	--	--
82-12-06	1500	138	--	17.	--	--	--	--	--	--
82-12-09	1500	138	--	17.	--	--	--	--	--	--
82-12-12	1300	138	--	14.	--	--	--	--	--	--
82-12-15	1300	138	--	15.	--	--	--	--	--	--
82-12-18	1500	138	--	13.	--	--	--	--	--	--
82-12-21	1500	138	--	16.	--	--	--	--	--	--
82-12-24	1500	138	--	15.	--	--	--	--	--	--
82-12-27	1500	138	--	14.	--	--	--	--	--	--
82-12-30	1300	138	--	10.	--	--	--	--	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JK0003 LAT. 50D 47M 3S LONG. 104D 17M 35S
QU'APPELLE RIVER ABOVE PASQUA LAKE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-01	1200	138	.450	.360	.090	.90	11.00	11.00	.28	11.28
82-01-04	1200	138	.440	.340	.100	.80	10.00	10.00	.27	10.27
82-01-07	1200	138	.620	.410	.210	.64	12.00	12.00	.32	12.32
82-01-10	1200	138	.920	.630	.290	.56	15.00	15.00	.44	15.44
82-01-13	1200	138	.790	.630	.160	.51	15.00	15.00	.34	15.34
82-01-16	1200	138	.670	.630	.040	.46	16.00	16.00	.20	16.20
82-01-19	1200	138	.480	.440	.040	.38	13.00	13.00	.26	13.26
82-01-22	1200	138	.500	.440	.060	.34	13.00	13.00	.27	13.27
82-01-25	1200	138	.420	.360	.060	.28	15.00	15.00	.20	15.20
82-01-28	1200	138	.400	.310	.090	.23	14.00	15.00	.22	15.22
82-01-31	1200	138	.320	.220	.100	.36	14.00	13.00	.20	13.20
82-02-03	1200	138	.270	.190	.080	.19	11.00	12.00	.16	12.16
82-02-06	1200	138	.240	.180	.060	.16	9.40	9.40	.16	9.56
82-02-09	1200	138	.250	.180	.070	.15	12.00	12.00	.15	12.15
82-02-12	1200	138	.280	.200	.080	.17	12.00	11.00	.16	11.16
82-02-15	1200	138	-	.220	--	.16	11.00	11.00	.16	11.16
82-02-18	1230	138	.390	.260	.130	.09	11.00	10.00	.23	10.23
82-02-21	1200	138	.440	.310	.130	.06	14.00	15.00	.22	15.22
82-02-24	1200	138	.420	.290	.130	.04	15.00	15.00	.17	15.17
82-02-27	1200	138	.460	.300	.160	.03	14.00	14.00	.18	14.18
82-03-02	1200	138	.550	.340	.210	.03	15.00	17.00	.26	17.26
82-03-05	1200	138	.570	.410	.160	.03	16.00	16.00	.23	16.23
82-03-08	1200	138	.880	.540	.340	.03	16.00	18.00	.27	18.27
82-03-11	1200	138	.950	.830	.120	.02	17.00	17.00	.31	17.31
82-03-14	1200	138	.980	.620	.360	.02	15.00	14.00	.31	14.31
82-03-17	1200	138	.950	.600	.350	.02	13.00	12.00	.26	12.26
82-03-20	1200	138	.870	.510	.360	.01	12.00	12.00	.28	12.28
82-03-23	1200	138	.980	.560	.420	.01	12.00	12.00	.41	12.41
82-03-26	1200	138	1.000	.580	.420	.03	14.00	13.00	.32	13.32
82-03-29	1030	138	.920	.540	.380	.03	9.00	8.40	.32	8.72
82-04-01	1000	138	.780	.450	.330	.17	12.00	12.00	.32	12.32
82-04-04	1200	138	.660	.540	.120	.18	12.00	12.00	.36	12.36
82-04-07	1200	138	.950	.600	.350	.14	16.00	16.00	.29	16.29
82-04-10	1200	138	.900	.650	.250	.26	14.00	14.00	.38	14.38
82-04-13	1200	138	.750	.600	.150	.20	8.40	8.60	.73	9.33
82-04-16	1200	138	.650	--	--	.54	1.40	1.50	.87	2.37
82-04-19	1200	138	.900	.290	.610	.43	2.10	2.30	1.00	3.30
82-04-22	1100	138	.420	.170	.250	.41	1.30	1.50	.82	2.32
82-04-25	0859	138	.360	.066	.294	.50	1.10	1.10	1.20	2.30
82-04-28	1200	138	.270	.130	.140	.32	.75	1.00	.58	1.58
82-05-01	1200	138	.350	.120	.230	.33	.82	1.00	.55	1.55
82-05-04	1200	138	.350	.170	.180	.49	.95	.98	.50	1.48
82-05-07	1200	138	.440	.190	.250	.23	.84	1.00	.70	1.70
82-05-10	1200	138	.350	.170	.180	.20	.58	.66	.64	1.30
82-05-13	1200	138	.290	.120	.170	L.01	.46	.49	.64	1.13
82-05-16	1200	138	.260	.100	.160	L.01	.42	.44	.54	.98
82-05-19	1200	138	.200	.120	.080	L.01	.44	.47	.37	.84
82-05-22	1200	138	.200	.130	.070	L.01	.45	.48	.31	.79
82-05-25	1200	138	.240	.130	.110	L.01	.49	.50	.35	.85
82-05-31	1200	138	.300	.150	.150	.01	.47	.51	.45	.96
82-06-03	1200	138	.280	.086	.194	L.01	.51	.51	.65	1.16
82-06-06	1200	138	.300	.061	.239	L.01	.55	.56	1.10	1.66
82-06-09	1200	138	.350	.140	.210	L.01	.60	.65	.88	1.53
82-06-12	1200	138	.300	.130	.170	.35	.88	1.10	.72	1.82
82-06-15	1200	138	.320	.150	.170	.22	.70	.86	.79	1.65
82-06-18	1200	138	.250	.120	.130	L.01	.60	.63	.68	1.31
82-06-21	1200	138	.330	.130	.200	L.01	.61	.69	1.00	1.69
82-06-24	1200	138	.380	.069	.311	L.01	.64	.79	1.30	2.09
82-06-27	1200	138	.360	.068	.292	L.01	.63	.67	1.40	2.07
82-06-30	1200	138	.330	.075	.250	L.01	.61	1.20	.85	2.10
82-07-03	1200	138	.350	.028	.320	L.01	.54	.85	1.50	2.40
82-07-06	1000	138	.350	.027	.320	.33	.91	1.00	1.60	2.60
82-07-09	1200	138	.440	.030	.410	.85	1.30	1.30	.91	2.20
82-07-12	1200	138	.280	.043	.240	.54	1.00	1.00	1.40	2.40
82-07-15	1100	138	.260	--	--	.25	.83	.86	1.10	2.00
82-07-18	1200	138	.300	.059	.240	.75	1.20	1.30	.99	2.30
82-07-21	1300	138	.310	.058	.250	1.20	1.70	1.70	1.00	2.70
82-07-24	1200	138	.350	.050	.300	3.20	3.60	3.60	1.70	5.30
82-07-27	1200	138	.340	.064	.280	.60	1.60	1.70	1.10	2.80
82-07-30	1200	138	.290	.081	.210	.54	1.20	1.50	.75	2.30
82-08-02	1200	138	.290	.066	.220	1.40	2.00	2.10	.91	3.00
82-08-05	1200	138	.310	.071	.240	.85	1.40	1.70	.77	2.50
82-08-08	1200	138	.460	.085	.370	.90	1.40	1.50	1.30	2.80
82-08-11	1200	138	.270	.062	.210	.04	1.00	1.30	.21	1.50
82-08-14	1200	138	.280	.076	.200	.27	.88	1.10	.77	1.90
82-08-17	1200	138	.270	.093	.180	.35	.96	1.10	.73	1.80
82-08-20	1200	138	.260	.089	.170	1.00	1.80	2.10	.72	2.80
82-08-23	1200	138	.290	.097	.190	1.70	2.50	2.50	.92	3.40
82-08-26	1200	138	.240	.091	.150	1.70	2.10	2.10	.77	2.90
82-08-29	1200	138	.180	.082	.100	2.60	3.10	3.10	.56	3.70
82-09-01	1200	138	.230	.100	.130	1.20	1.80	1.80	.49	2.30
82-09-04	1200	138	.220	.094	.130	1.30	2.00	2.20	.51	2.70
82-09-07	1530	138	.280	.100	.180	1.00	1.60	1.60	.77	2.40
82-09-10	1430	138	.230	.090	.140	1.50	2.10	2.20	.56	2.80
82-09-13	1555	138	.200	.110	.090	1.90	2.40	2.50	.54	3.00
82-09-16	1230	138	.210	.130	.080	1.10	1.80	1.90	.44	2.30

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JK0003 — QU'APPELLE RIVER ABOVE PASQUA LAKE. SASKATCHEWAN — LAT. 50D 47M 3S LONG. 104D 17M 35S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-09-19	0930	138	.240	.140	.100	.68	1.40	1.40	.10	1.50
82-09-22	1145	138	.240	.140	.100	.84	1.70	1.70	.20	1.90
82-09-25	1345	138	.230	.150	.080	1.20	2.00	2.10	.20	2.30
82-09-28	1745	138	.440	.190	.250	1.40	2.30	2.10	.20	2.30
82-10-01	1200	138	.310	.190	.120	1.40	2.30	2.30	.44	2.70
82-10-04	1200	138	.270	.180	.090	1.20	2.10	2.10	.44	2.50
82-10-07	1200	138	.210	.140	.070	1.50	2.20	2.30	.34	2.60
82-10-10	1200	138	.280	.150	.130	.90	2.40	2.60	.59	3.20
82-10-13	1200	138	.250	.140	.110	.57	1.50	1.50	.53	2.00
82-10-16	1200	138	.210	.085	.120	.50	1.40	1.50	.49	2.00
82-10-19	1600	138	.220	.060	.160	.16	.96	.99	.71	1.70
82-10-22	1500	138	.200	.073	.130	.32	1.20	1.30	.46	1.80
82-10-25	1500	138	.170	.067	.100	.32	1.10	1.10	.61	1.70
82-10-28	1200	138	.700	.082	.620	.56	1.30	1.50	1.40	2.90
82-10-31	1500	138	.180	.056	.120	.29	1.10	1.10	.54	1.60
82-11-03	1500	138	.180	.070	.110	.33	1.20	1.20	.48	1.70
82-11-06	1400	138	.130	.069	.060	.36	1.30	1.30	.33	1.60
82-11-09	1400	138	.120	.067	.050	.33	1.30	1.30	.29	1.60
82-11-12	1415	138	.130	.056	.070	.29	1.30	1.30	.25	1.60
82-11-15	1500	138	.110	.062	.050	.23	1.40	1.40	.26	1.70
82-11-18	1500	138	.097	.062	.035	.29	1.40	1.40	.15	1.60
82-11-21	1600	138	.094	.058	.036	.38	1.60	1.60	.33	1.90
82-11-24	1400	138	.100	--	--	.64	2.70	2.70	.20	2.90
82-11-27	1400	138	.110	.083	.030	.40	2.10	2.10	.27	2.40
82-11-30	1500	138	.120	.053	.070	.32	1.60	1.50	.21	1.70
82-12-03	1400	138	.110	.070	.040	.33	1.50	1.60	.16	1.80
82-12-06	1500	138	.110	.095	.015	.36	1.80	1.70	.15	1.90
82-12-09	1500	138	.150	.085	.060	.36	2.50	2.50	.17	2.70
82-12-12	1300	138	.160	.120	.040	.36	2.80	2.80	.21	3.00
82-12-15	1300	138	.160	.110	.050	.34		2.40	.14	2.50
82-12-18	1500	138	--	.098	--	.32	2.90	3.30	.17	3.50
82-12-21	1500	138	--	--	--	.31	2.90	2.90	.11	3.00
82-12-24	1500	138	--	--	--	.31	2.60	2.90	1.01	2.90
82-12-27	1500	138	--	--	--	.32	3.20	3.20	.05	3.30
82-12-30	1300	138	.150	.120	.030	--	3.40	3.40	.10	3.50

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-01	1200	138	--	--	11.0	1.60	12.6	--	--	--
82-01-04	1200	138	--	--	11.0	1.50	12.5	--	--	--
82-01-07	1200	138	--	--	11.0	1.50	12.5	--	--	--
82-01-10	1200	138	--	--	12.0	2.30	14.3	--	--	--
82-01-13	1200	138	--	--	11.0	1.90	12.9	--	--	--
82-01-16	1200	138	--	--	11.0	1.20	12.2	--	--	--
82-01-19	1200	138	--	--	11.0	1.50	12.5	--	--	--
82-01-22	1200	138	--	--	11.0	1.60	12.6	--	--	--
82-01-25	1200	138	--	--	10.0	1.20	11.2	--	--	--
82-01-28	1200	138	--	--	10.0	1.30	11.3	--	--	--
82-01-31	1200	138	--	--	10.0	1.10	11.1	--	--	--
82-02-03	1200	138	--	--	11.0	.96	12.0	--	--	--
82-02-06	1200	138	--	--	10.0	.85	10.9	--	--	--
82-02-09	1200	138	--	--	9.9	.79	10.7	--	--	--
82-02-12	1200	138	--	--	9.5	.73	10.2	--	--	--
82-02-15	1200	138	--	--	9.7	.76	10.5	--	--	--
82-02-18	1230	138	--	--	9.7	.98	10.7	--	--	--
82-02-21	1200	138	--	--	10.0	.96	11.0	--	--	--
82-02-24	1200	138	--	--	11.0	.84	11.8	--	--	--
82-02-27	1200	138	--	--	11.0	.93	11.9	--	--	--
82-03-02	1200	138	--	--	11.0	1.30	12.3	--	--	--
82-03-05	1200	138	--	--	11.0	1.20	12.2	--	--	--
82-03-08	1200	138	--	--	11.0	1.40	12.4	--	--	--
82-03-11	1200	138	--	--	12.0	1.60	13.6	--	--	--
82-03-14	1200	138	--	--	11.0	1.60	12.6	--	--	--
82-03-17	1200	138	--	--	11.0	1.40	12.4	--	--	--
82-03-20	1200	138	--	--	10.0	1.60	11.6	--	--	--
82-03-23	1200	138	--	--	10.0	2.00	12.0	--	--	--
82-03-26	1200	138	--		10.0	1.50	11.5		--	--
82-03-29	1030	138	--	--	9.6	1.60	11.2	--	--	--
82-04-01	1000	138	--	--	11.0	1.70	12.7	--	--	--
82-04-04	1200	138	--	--	12.0	1.90	13.9	--	--	--
82-04-07	1200	138	--	--	11.0	1.60	12.6	--	--	--
82-04-10	1200	138	--	--	12.0	1.90	13.9	--	--	--
82-04-13	1200	138	--	--	10.0	3.80	13.8	--	--	--
82-04-16	1200	138	--	--	8.2	5.80	14.0	--	--	--
82-04-19	1200	138	--	--	10.0	8.70	18.7	--	--	--
82-04-22	1100	138	--	--	9.8	5.10	14.9	--	--	--
82-04-25	0859	138	--	--	9.8	6.10	15.9	--	--	--
82-04-28	1200	138	--	--	6.5	3.00	9.5	--	--	--
82-05-01	1200	138	--	--	6.7	3.10	9.8	--	--	--
82-05-04	1200	138	--	--	7.1	3.30	10.4	--	--	--
82-05-07	1200	138	--	--	7.0	5.00	12.0	--	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JK0003 LAT. 50D 47M 3S LONG. 104D 17M 35S
QU'APPELLE RIVER ABOVE PASQUA LAKE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-05-10	1200	138	--	--	8.2	4.00	12.2	--	--	--
82-05-13	1200	138	--	--	7.5	3.30	10.8	--	--	--
82-05-16	1200	138	--	--	8.2	3.40	11.6	--	--	--
82-05-19	1200	138	--	--	6.2	1.90	8.1	--	--	--
82-05-22	1200	138	--	--	7.3	1.70	9.0	--	--	--
82-05-25	1200	138	--	--	8.2	1.90	10.1	--	--	--
82-05-31	1200	138	--	--	9.0	2.70	11.7	--	--	--
82-06-03	1200	138	--	--	9.0	3.40	12.4	--	--	--
82-06-06	1200	138	--	--	9.3	6.40	15.7	--	--	--
82-06-09	1200	138	--	--	8.6	4.80	13.4	--	--	--
82-06-12	1200	138	--	--	9.5	4.00	13.5	--	--	--
82-06-15	1200	138	--	--	9.6	4.40	14.0	--	--	--
82-06-18	1200	138	--	--	9.5	3.90	13.4	--	--	--
82-06-21	1200	138	--	--	10.0	5.90	15.9	--	--	--
82-06-24	1200	138	--	--	9.2	7.50	16.7	--	--	--
82-06-27	1200	138	--	--	9.7	7.80	17.5	--	--	--
82-06-30	1200	138	--	--	9.2	5.10	14.3	--	--	--
82-07-03	1200	138	--	--	8.9	8.30	17.2	--	--	--
82-07-06	1000	138	--	--	8.3	9.10	17.4	--	--	--
82-07-09	1200	138	--	--	7.9	5.90	13.8	--	--	--
82-07-12	1200	138	--	--	8.4	7.90	16.3	--	--	--
82-07-15	1100	138	--	--	7.8	6.10	13.9	--	--	--
82-07-18	1200	138	--	--	7.2	6.10	13.3	--	--	--
82-07-21	1300	138	--	--	7.4	5.60	13.0	--	--	--
82-07-24	1200	138	--	--	7.2	9.70	16.9	--	--	--
82-07-27	1200	138	--	--	6.8	7.30	14.1	--	--	--
82-07-30	1200	138	--	--	6.9	5.50	12.4	--	--	--
82-08-02	1200	138	--	--	8.4	6.10	14.5	--	--	--
82-08-05	1200	138	--	--	8.1	5.50	13.6	--	--	--
82-08-08	1200	138	--	--	7.8	9.50	17.3	--	--	--
82-08-11	1200	138	--	--	7.8	1.20	9.0	--	--	--
82-08-14	1200	138	--	--	8.1	4.60	12.7	--	--	--
82-08-17	1200	138	--	--	8.6	4.20	12.8	--	--	--
82-08-20	1200	138	--	--	8.1	4.00	12.1	--	--	--
82-08-23	1200	138	--	--	8.9	5.20	14.1	--	--	--
82-08-26	1200	138	--	--	8.8	4.80	13.6	--	--	--
82-08-29	1200	138	--	--	8.8	3.30	12.1	--	--	--
82-09-01	1200	138	--	--	8.3	3.30	11.6	--	--	--
82-09-04	1200	138	--	--	8.6	3.40	12.0	--	--	--
82-09-07	1530	138	--	--	9.0	5.80	14.8	--	--	--
82-09-10	1430	138	--	--	8.6	3.80	12.4	--	--	--
82-09-13	1555	138	--	--	9.2	3.70	12.9	--	--	--
82-09-16	1230	138	--	--	9.1	2.70	11.8	--	--	--
82-09-19	0930	138	--	--	9.9	.62	10.5	--	--	--
82-09-22	1145	138	--	--	10.0	1.30	11.3	--	--	--
82-09-25	1345	138	--	--	11.0	1.30	12.3	--	--	--
82-09-28	1745	138	--	--	11.0	1.40	12.4	--	--	--
82-10-01	1200	138	--	--	12.0	2.70	14.7	--	--	--
82-10-04	1200	138	--	--	12.0	2.90	14.9	--	--	--
82-10-07	1200	138	--	--	10.0	2.30	12.3	--	--	--
82-10-10	1200	138	--	--	12.0	4.10	16.1	--	--	--
82-10-13	1200	138	--	--	12.0	3.30	15.3	--	--	--
82-10-16	1200	138	--	--	12.0	3.50	15.5	--	--	--
82-10-19	1600	138	--	--	13.0	4.20	17.2	--	--	--
82-10-22	1500	138	--	--	12.0	3.10	15.1	--	--	--
82-10-25	1500	138	--	--	14.0	3.40	17.4	--	--	--
82-10-28	1200	138	--	--	13.0	14.00	27.0	--	--	--
82-10-31	1500	138	--	--	13.0	3.50	16.5	--	--	--
82-11-03	1500	138	--	--	14.0	2.70	16.7	--	--	--
82-11-06	1400	138	--	--	15.0	1.90	16.9	--	--	--
82-11-09	1400	138	--	--	13.0	2.00	15.0	--	--	--
82-11-12	1415	138	--	--	14.0	5.90	19.9	--	--	--
82-11-15	1500	138	--	--	14.0	1.40	15.4	--	--	--
82-11-18	1500	138	--	--	13.0	.93	13.9	--	--	--
82-11-21	1600	138	--	--	15.0	2.00	17.0	--	--	--
82-11-24	1400	138	--	--	14.0	1.10	15.1	--	--	--
82-11-27	1400	138	--	--	13.0	1.50	14.5	--	--	--
82-11-30	1500	138	--	--	14.0	1.30	15.3	--	--	--
82-12-03	1400	138	--	--	14.0	.96	15.0	--	--	--
82-12-06	1500	138	--	--	16.0	.96	17.0	--	--	--
82-12-09	1500	138	--	--	13.0	1.20	14.2	--	--	--
82-12-12	1300	138	--	--	14.0	1.40	15.4	--	--	--
82-12-15	1300	138	--		15.0	.98	16.0	--	--	--
82-12-18	1500	138	--	--	15.0	1.20	16.2	--	--	--
82-12-21	1500	138	--	--	14.0	.82	14.8	--	--	--
82-12-24	1500	138	--	--	15.0	.29	15.3	--	--	--
82-12-27	1500	138	--	--	15.0	.40	15.4	--	--	--
82-12-30	1300	138	--	--	15.0	.73	15.7	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-01	1300	138	--	--	1650	--	7.9	--	2.0	--
82-01-04	1300	138	--	--	1620	--	7.8	--	2.9	--
82-01-07	1300	138	--	--	1710	--	8.0	--	.9	--
82-01-10	1300	138	--	--	1680	--	8.3	--	.8	--
82-01-13	1300	138	--	--	1680	--	8.0	--	1.2	--
82-01-16	1300	138	--	--	1630	--	8.4	--	1.2	--
82-01-19	1300	138	--	--	1680	--	8.1	--	1.0	--
82-01-22	1300	138	--	--	1660	--	8.0	--	.7	--
82-01-25	1300	138	--	--	1710	--	8.0	--	1.0	--
82-01-28	1300	138	--	--	1730	--	8.0	--	.8	--
82-01-31	1300	138	--	--	1740	--	7.6	--	.9	--
82-02-03	1400	138	--	--	1740	--	7.8	--	2.0	--
82-02-06	1300	138	--	--	1740	--	7.6	--	.8	--
82-02-09	1300	138	--	--	1750	--	7.6	--	.6	--
82-02-12	1300	138	--	--	1690	--	7.7	--	.6	--
82-02-15	1300	138	--	--	1740	--	7.9	--	1.1	--
82-02-18	1200	138	--	--	1740	--	8.0	--	1.4	--
82-02-21	1345	138	--	--	1680	--	7.8	--	5.0	--
82-02-24	1100	138	--	--	1650	--	7.5	--	2.2	--
82-02-27	1300	138	--	--	1730	--	7.5	--	1.2	--
82-03-02	1300	138	--	--	1730	--	7.7	--	.9	--
82-03-05	1300	138	--	--	1680	--	7.6	--	.8	--
82-03-08	1300	138	--	--	1730	--	7.7	--	.7	--
82-03-11	1300	138	--	--	1710	--	8.2	--	1.1	--
82-03-14	1300	138	--	--	1740	--	8.0	--	.8	--
82-03-17	1300	138	--	--	1710	--	7.8	--	2.0	--
82-03-20	1300	138	--	--	1740	--	7.8	--	.7	--
82-03-23	1300	138	--	--	1430	--	7.9	--	6.2	--
82-03-26	1300	138	--	--	1680	--	7.7	--	1.4	--
82-03-29	1300	138	--	--	1400	--	7.7	--	1.4	--
82-04-01	1100	138	--	--	1640	--	7.9	--	3.8	--
82-04-04	1300	138	--	--	1670	--	7.9	--	1.4	--
82-04-07	1300	138	--	--	1670	--	7.9	--	1.4	--
82-04-10	1300	138	--	--	1740	--	7.9	--	1.3	--
82-04-13	1300	138	--	--	1490	--	8.0	--	2.0	--
82-04-16	1200	138	--	--	1340	--	8.0	--	46.0	--
82-04-19	1300	138	--	--	1380	--	8.0	--	14.0	--
82-04-22	1259	138	--	--	1260	--	8.3	--	21.0	--
82-04-25	1300	138	--	--	790	--	8.3	--	20.0	--
82-04-28	1300	138	--	--	1560	--	7.9	--	7.6	--
82-05-01	1300	138	--	--	1550	--	7.9	--	4.4	--
82-05-04	1300	138	--	--	1600	--	7.9	--	9.6	--
82-05-07	1300	138	--	--	1680	--	8.0	--	5.4	--
82-05-10	1300	138	--	--	1690	--	7.9	--	3.0	--
82-05-13	1300	138	--	--	1650	--	8.0	--	2.6	--
82-05-16	1300	138	--	--	1610	--	7.9	--	2.8	--
82-05-19	1300	138	--	--	1610	--	7.9	--	2.6	--
82-05-22	1300	138	--	--	1620	--	7.9	--	2.4	--
82-05-25	1300	138	--	--	1620	--	8.0	--	3.6	--
82-05-28	1000	138	--	--	1580	--	8.0	--	3.0	--
82-05-31	1300	138	--	--	1610	--	8.0	--	2.8	--
82-06-03	1100	138	--	--	1570	--	8.0	--	2.2	--
82-06-06	1300	138	--	--	1590	--	8.2	--	3.8	--
82-06-09	1300	138	--	--	1590	--	8.1	--	5.0	--
82-06-12	1300	138	--	--	1560	--	8.0	--	2.8	--
82-06-15	1300	138	--	--	1570	--	8.2	--	3.4	--
82-06-18	1300	138	--	--	1560	--	8.1	--	4.4	--
82-06-21	1300	138	--	--	1700	--	8.3	--	5.2	--
82-06-24	1300	138	--	--	1650	--	8.2	--	5.2	--
82-06-27	1300	138	--	--	1640	--	8.3	--	3.0	--
82-06-30	1300	138	--	--	1710	--	8.3	--	2.2	--
82-07-03	1300	138	--	--	1660	--	8.0	--	2.2	--
82-07-06	1100	138	--	--	1610	--	8.4	--	4.0	--
82-07-09	1300	138	--	--	1640	--	8.1	--	1.8	--
82-07-12	1300	138	--	--	1700	--	8.1	--	9.0	--
82-07-15	1200	138	--	--	1540	--	8.2	--	5.4	--
82-07-18	1300	138	--	--	1610	--	8.0	--	3.4	--
82-07-21	1200	138	--	--	1650	--	8.2	--	2.8	--
82-07-24	1300	138	--	--	1610	--	8.1	--	3.8	--
82-07-27	1300	138	--	--	1530	--	8.1	--	3.6	--
82-07-30	1300	138	--	--	1530	--	8.1	--	3.8	--
82-08-02	1300	138	--	--	1700	--	8.1	--	4.0	--
82-08-05	1300	138	--	--	1625	--	8.2	--	5.8	--
82-08-08	1300	138	--	--	1620	--	8.1	--	8.8	--
82-08-11	1300	138	--	--	1500	--	8.0	--	4.0	--
82-08-14	1300	138	--	--	1600	--	8.0	--	3.6	--
82-08-17	1300	138	--	--	1550	--	8.1	--	4.0	--
82-08-20	1300	138	--	--	1600	--	8.0	--	4.4	--
82-08-23	1300	138	--	--	1580	--	8.0	--	3.1	--
82-08-26	1300	138	--	--	1430	--	8.1	--	18.0	--
82-08-29	1300	138	--	--	1450	--	8.0	--	16.0	--
82-09-01	1300	138	--	--	1620	--	8.1	--	6.4	--
82-09-04	1300	138	--	--	1640	--	8.1	--	9.0	--
82-09-07	1615	138	--	--	1510	--	8.2	--	3.3	--
82-09-10	1515	138	--	--	1560	--	8.6	--	3.3	--
82-09-13	1615	138	--	--	1620	--	8.7	--	4.1	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-09-16	1315	138	--	--	1600.	--	8.4	--	5.6	--
82-09-19	1015	138	--	--	1610.	--	8.5	--	2.4	--
82-09-22	1230	138	--	--	1610.	--	8.5	--	3.9	--
82-09-25	1455	138	--	--	1610.	--	8.6	--	5.0	--
82-09-28	1835	138	--	--	1590.	--	8.3	--	3.8	--
82-10-01	1300	138	--	--	1580.	--	8.0	--	2.8	--
82-10-04	1300	138	--	--	1630.	--	8.1	--	20.0	--
82-10-07	1300	138	--	--	1630.	--	7.9	--	2.4	--
82-10-10	1300	138	--	--	1500.	--	8.0	--	11.0	--
82-10-13	1300	138	--	--	1590.	--	8.0	--	6.0	--
82-10-16	1300	138	--	--	1650.	--	7.9	--	3.0	--
82-10-19	1400	138	--	--	1620.	--	8.1	--	4.6	--
82-10-22	1400	138	--	--	1630.	--	8.0	--	2.0	--
82-10-25	1400	138	--	--	1620.	--	8.0	--	1.6	--
82-10-28	1400	138	--	--	1570.	--	9.0	--	14.0	--
82-10-31	1400	138	--	--	1630.	--	8.0	--	2.0	--
82-11-03	1400	138	--	--	1600.	--	8.0	--	4.0	--
82-11-06	1500	138	--	--	1570.	--	7.9	--	2.4	--
82-11-09	1500	138	--	--	1590.	--	8.0	--	1.6	--
82-11-12	1800	138	--	--	1580.	--	8.2	--	2.0	--
82-11-15	1400	138	--	--	1580.	--	8.0	--	2.4	--
82-11-18	1400	138	--	--	1600.	--	8.1	--	1.4	--
82-11-21	1400	138	--	--	1120.	--	8.0	--	8.4	--
82-11-24	1500	138	--	--	1540.	--	8.1	--	6.4	--
82-11-27	1300	138	--	--	1800.	--	8.0	--	2.0	--
82-11-30	1400	138	--	--	1620.	--	7.9	--	3.0	--
82-12-03	1300	138	--	--	1600.	--	8.1	--	.8	--
82-12-06	1400	138	--	--	1620.	--	8.1	--	1.2	--
82-12-09	1400	138	--	--	1540.	--	8.1	--	1.8	--
82-12-12	1400	138	--	--	1610.	--	7.9	--	9.0	--
	1449	138	--	--	1610.	--	7.9	--	9.2	--
82-12-15	1400	138	--	--	1650.	--	8.1	--	2.1	--
82-12-18	1400	138	--	--	1640.	--	8.0	--	1.4	--
82-12-21	1400	138	--	--	1620.	--	8.0	--	1.8	--
82-12-24	1400	138	--	--	1590.	--	8.1	--	1.8	--
82-12-27	1400	138	--	--	1700.	--	8.0	--	1.2	--
82-12-30	1200	138	--	--	1650.	--	8.0	--	1.0	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT 50D 38M 58S LONG 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO 02 MG/L
82-01-01	1300	138	--	3	--	--	--	--	--	--
82-01-04	1300	138	--	32	--	--	--	--	--	--
82-01-07	1300	138	--	1	--	--	--	--	--	--
82-01-10	1300	138	--	35	--	--	--	--	--	--
82-01-13	1300	138	--	1	--	--	--	--	--	--
82-01-16	1300	138	--	1	--	--	--	--	--	--
82-01-19	1300	138	--	3	--	--	--	--	--	--
82-01-22	1300	138	--	11	--	--	--	--	--	--
82-01-25	1300	138	--	1	--	--	--	--	--	--
82-01-28	1300	138	--	11	--	--	--	--	--	--
82-01-31	1300	138	--	11	--	--	--	--	--	--
82-02-03	1400	138	--	6	--	--	--	--	--	--
82-02-06	1300	138	--	2	--	--	--	--	--	--
82-02-09	1300	138	--	2	--	--	--	--	--	--
82-02-12	1300	138	--	2	--	--	--	--	--	--
82-02-15	1300	138	--	1	--	--	--	--	--	--
82-02-18	1200	138	--	4	--	--	--	--	--	--
82-02-21	1345	138	--	5	--	--	--	--	--	--
82-02-24	1100	138	--	5	--	--	--	--	--	--
82-02-27	1300	138	--	6	--	--	--	--	--	--
82-03-02	1300	138	--	1	--	--	--	--	--	--
82-03-05	1300	138	--	3	--	--	--	--	--	--
82-03-08	1300	138	--	1	--	--	--	--	--	--
82-03-11	1300	138	--	11	--	--	--	--	--	--
82-03-14	1300	138	--	2	--	--	--	--	--	--
82-03-17	1300	138	--	2	--	--	--	--	--	--
82-03-20	1300	138	--	1	--	--	--	--	--	--
82-03-23	1300	138	--	2	--	--	--	--	--	--
82-03-26	1300	138	--	2	--	--	--	--	--	--
82-03-29	1300	138	--	3	--	--	--	--	--	--
82-04-01	1100	138	--	7	--	--	--	--	--	--
82-04-04	1300	138	--	1	--	--	--	--	--	--
82-04-07	1300	138	--	4	--	--	--	--	--	--
82-04-10	1300	138	--	3	--	--	--	--	--	--
82-04-13	1300	138	--	4	--	--	--	--	--	--
82-04-16	1200	138	--	65	--	--	--	--	--	--
82-04-19	1300	138	--	24	--	--	--	--	--	--
82-04-22	1259	138	--	35	--	--	--	--	--	--
82-04-25	1300	138	--	32	--	--	--	--	--	--
82-04-28	1300	138	--	12	--	--	--	--	--	--
82-05-01	1300	138	--	4	--	--	--	--	--	--
82-05-04	1300	138	--	28	--	--	--	--	--	--
82-05-07	1300	138	--	7	--	--	--	--	--	--
82-05-10	1300	138	--	7	--	--	--	--	--	--
82-05-13	1300	138	--	5	--	--	--	--	--	--
82-05-16	1300	138	--	5	--	--	--	--	--	--
82-05-19	1300	138	--	4	--	--	--	--	--	--
82-05-22	1300	138	--	4	--	--	--	--	--	--
82-05-25	1300	138	--	3	--	--	--	--	--	--
82-05-28	1000	138	--	4	--	--	--	--	--	--
82-05-31	1300	138	--	4	--	--	--	--	--	--
82-06-03	1100	138	--	5	--	--	--	--	--	--
82-06-06	1300	138	--	11	--	--	--	--	--	--
82-06-09	1300	138	--	15	--	--	--	--	--	--
82-06-12	1300	138	--	7	--	--	--	--	--	--
82-06-15	1300	138	--	21	--	--	--	--	--	--
82-06-18	1300	138	--	14	--	--	--	--	--	--
82-06-21	1300	138	--	13	--	--	--	--	--	--
82-06-24	1300	138	--	18	--	--	--	--	--	--
82-06-27	1300	138	--	8	--	--	--	--	--	--
82-06-30	1300	138	--	6	--	--	--	--	--	--
82-07-03	1300	138	--	5	--	--	--	--	--	--
82-07-06	1100	138	--	12	--	--	--	--	--	--
82-07-09	1300	138	--	3	--	--	--	--	--	--
82-07-12	1300	138	--	5	--	--	--	--	--	--
82-07-15	1200	138	--	8	--	--	--	--	--	--
82-07-18	1300	138	--	6	--	--	--	--	--	--
82-07-21	1200	138	--	13	--	--	--	--	--	--
82-07-24	1300	138	--	14	--	--	--	--	--	--
82-07-27	1300	138	--	9	--	--	--	--	--	--
82-07-30	1300	138	--	8	--	--	--	--	--	--
82-08-02	1300	138	--	8	--	--	--	--	--	--
82-08-05	1300	138	--	6	--	--	--	--	--	--
82-08-08	1300	138	--	14	--	--	--	--	--	--
82-08-11	1300	138	--	7	--	--	--	--	--	--
82-08-14	1300	138	--	5	--	--	--	--	--	--
82-08-17	1300	138	--	6	--	--	--	--	--	--
82-08-20	1300	138	--	3	--	--	--	--	--	--
82-08-23	1300	138	--	6	--	--	--	--	--	--
82-08-26	1300	138	--	11	--	--	--	--	--	--
82-08-29	1300	138	--	15	--	--	--	--	--	--
82-09-01	1300	138	--	11	--	--	--	--	--	--
82-09-04	1300	138	--	7	--	--	--	--	--	--
82-09-07	1615	138	--	9	--	--	--	--	--	--
82-09-10	1515	138	--	9	--	--	--	--	--	--
82-09-13	1615	138	--	7	--	--	--	--	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101N OXYGEN DISSOLVED DO O2 MG/L
82-09-16	1315	138	--	10.	--	--	--	--	--	--
82-09-19	1015	138	--	14.	--	--	--	--	--	--
82-09-22	1230	138	--	13.	--	--	--	--	--	--
82-09-25	1455	138	--	10.	--	--	--	--	--	--
82-09-28	1835	138	--	4.	--	--	--	--	--	--
82-10-01	1300	138	--	6.	--	--	--	--	--	--
82-10-04	1300	138	--	212.	--	--	--	--	--	--
82-10-07	1300	138	--	6.	--	--	--	--	--	--
82-10-10	1300	138	--	12.	--	--	--	--	--	--
82-10-13	1300	138	--	9	--	--	--	--	--	--
82-10-16	1300	138	--	6.	--	--	--	--	--	--
82-10-19	1400	138	--	9.	--	--	--	--	--	--
82-10-22	1400	138	--	5.	--	--	--	--	--	--
82-10-25	1400	138	--	2.	--	--	--	--	--	--
82-10-28	1400	138	--	39.	--	--	--	--	--	--
82-10-31	1400	138	--	2.	--	--	--	--	--	--
82-11-03	1400	138	--	8.	--	--	--	--	--	--
82-11-06	1500	138	--	7.	--	--	--	--	--	--
82-11-09	1500	138	--	4.	--	--	--	--	--	--
82-11-12	1600	138	--	3.	--	--	--	--	--	--
82-11-15	1400	138	--	9.	--	--	--	--	--	--
82-11-18	1400	138	--	3.	--	--	--	--	--	--
82-11-21	1400	138	--	41.	--	--	--	--	--	--
82-11-24	1500	138	--	4.	--	--	--	--	--	--
82-11-27	1300	138	--	4.	--	--	--	--	--	--
82-11-30	1400	138	--	12.	--	--	--	--	--	--
82-12-03	1300	138	--	2.	--	--	--	--	--	--
82-12-06	1400	138	--	11.	--	--	--	--	--	--
82-12-09	1400	138	--	8	--	--	--	--	--	--
82-12-12	1400	138	--	1.	--	--	--	--	--	--
	1449	138	--	1	--	--	--	--	--	--
82-12-15	1400	138	--	21.	--	--	--	--	--	--
82-12-18	1400	138	--	3	--	--	--	--	--	--
82-12-21	1400	138	--	7.	--	--	--	--	--	--
82-12-24	1400	138	--	5.	--	--	--	--	--	--
82-12-27	1400	138	--	2.	--	--	--	--	--	--
82-12-30	1200	138	--	2	--	--	--	--	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-01	1300	138	.420	.410	.010	.29	1.00	1.10	.06	1.16
82-01-04	1300	138	.430	.420	.010	.32	1.00	1.10	.01	1.11
82-01-07	1300	138	.420	.400	.020	.28	1.00	1.00	.05	1.05
82-01-10	1300	138	.420	.410	.010	.32	.97	1.00	.05	1.05
82-01-13	1300	138	.420	.400	.020	.32	1.30	1.30	.04	1.34
82-01-16	1300	138	.530	.450	.080	.29	1.30	1.20	.04	1.24
82-01-19	1300	138	.440	.430	.010	.27	1.10	1.20	.04	1.24
82-01-22	1300	138	.450	.440	.010	.28	1.10	1.20	.03	1.23
82-01-25	1300	138	.440	.430	.010	.30	1.10	1.10	L.01	Q1.11
82-01-28	1300	138	.430	.430	.000	.39	1.20	1.20	.04	1.24
82-01-31	1300	138	.460	.440	.020	.38	1.30	1.30	L.01	Q1.31
82-02-03	1400	138	.450	.430	.020	.43	1.30	1.30	.05	1.35
82-02-06	1300	138	.450	.440	.010	.38	1.20	1.20	L.01	Q1.21
82-02-09	1300	138	.440	.420	.020	.38	1.20	1.20	.04	1.24
82-02-12	1300	138	.440	.420	.020	.42	1.40	1.20	L.01	Q1.21
82-02-15	1300	138	.460	.450	.010	.45	1.60	1.40	L.01	Q1.41
82-02-18	1200	138	.470	.440	.030	.41	1.10	1.10	L.01	Q1.11
82-02-21	1345	138	.490	.480	.010	.40	1.60	1.60	.10	1.70
82-02-24	1100	138	.450	.410	.040	.36	1.20	1.20	.05	1.25
82-02-27	1300	138	.450	.440	.010	.44	1.20	1.40	L.01	Q1.41
82-03-02	1300	138	.450	.430	.020	.39	.99	1.00	.04	1.04
82-03-05	1300	138	.450	.440	.010	.43	--	1.00	.04	1.04
82-03-08	1300	138	.450	.430	.020	.44	1.20	1.20	L.01	Q1.21
82-03-11	1300	138	.430	.410	.020	.42	1.20	1.20	.05	1.25
82-03-14	1300	138	.420	.400	.020	.42	1.20	1.20	.05	1.25
82-03-17	1300	138	.420	.410	.010	.46	1.10	1.10	.05	1.15
82-03-20	1300	138	.440	.430	.010	.43	1.20	1.10	.05	1.15
82-03-23	1300	138	.420	.370	.050	.42	1.10	1.10	.17	1.27
82-03-26	1300	138	.420	.400	.020	.37	1.10	1.20	.06	1.26
82-03-29	1300	138	.420	.400	.020	.45	1.20	1.30	.07	1.37
82-04-01	1100	138	.440	.360	.080	.31	1.00	1.10	.11	1.21
82-04-04	1300	138	.460	.430	.030	.46	1.10	1.10	.06	1.16
82-04-07	1300	138	.420	.380	.040	.37	1.20	1.20	.04	1.24
82-04-10	1300	138	.410	.380	.030	.42	1.20	1.20	L.01	Q1.21
82-04-13	1300	138	.410	.390	.020	.33	1.30	1.20	.06	1.26
82-04-16	1200	138	.420	.390	.030	.66	1.40	1.40	.26	1.66
82-04-19	1300	138	.400	.370	.030	.45	1.10	1.30	.29	1.59
82-04-22	1259	138	.450	.330	.120	.14	.78	.89	.31	1.20
82-04-25	1300	138	.330	.210	.120	.15	.61	.64	.58	1.22
82-04-28	1300	138	.430	.360	.070	.12	.71	.91	.16	1.07
82-05-01	1300	138	.420	.360	.060	.27	.90	.93	.14	1.07
82-05-04	1300	138	.440	.330	.110	.28	.89	.88	.23	1.11
82-05-07	1300	138	.430	.340	.090	.07	.85	.98	.19	1.17
82-05-10	1300	138	.430	.360	.070	.27	.80	.88	.16	1.04
82-05-13	1300	138	.420	.360	.060	.10	.75	.87	.12	.99
82-05-16	1300	138	.410	.350	.060	.26	.85	.84	.17	1.01
82-05-19	1300	138	.410	.370	.040	.22	.78	.85	.17	1.02
82-05-22	1300	138	.430	.350	.080	.15	.74	.80	.11	.91
82-05-25	1300	138	.440	.350	.090	L.01	.70	.74	.21	.95
82-05-28	1000	138	.450	.360	.090	.02	.61	.71	.20	.91
82-05-31	1300	138	.430	.380	.050	.06	.66	.69	.20	.89
82-06-03	1100	138	.430	.360	.070	L.01	.59	.71	.14	.85
82-06-06	1300	138	.440	.360	.080	.08	.67	.70	.25	.95
82-06-09	1300	138	.420	.370	.050	L.01	.71	.71	.34	1.05
82-06-12	1300	138	.440	.360	.080	L.01	.70	.72	.27	.99
82-06-15	1300	138	.430	.350	.080	L.01	.69	.66	.23	.89
82-06-18	1300	138	.400	.310	.090	L.01	.68	.69	.26	.95
82-06-21	1300	138	.400	.320	.080	L.01	.70	.73	.26	.99
82-06-24	1300	138	.460	.360	.100	L.01	.73	.74	.20	.94
82-06-27	1300	138	.390	.360	.030	L.01	.73	.73	.24	.97
82-06-30	1300	138	.430	.390	.040	L.01	.69	.69	.09	.78
82-07-03	1300	138	.440	--	--	L.01	.66	.73	.09	.82
82-07-06	1100	138	.440	.370	.070	.01	.68	.69	.17	.86
82-07-09	1300	138	.430	.380	.050	L.01	.71	.71	.08	.79
82-07-12	1300	138	.440	.390	.050	L.01	.73	.72	.09	.81
82-07-15	1200	138	.470	.420	.050	.02	.79	.77	.16	.93
82-07-18	1300	138	.390	.360	.030	.01	.80	.80	.16	.96
82-07-21	1200	138	.410	.370	.040	L.01	.80	.80	.12	.92
82-07-24	1300	138	.420	.400	.020	L.01	.75	.73	.15	.88
82-07-27	1300	138	.440	.390	.050	.01	.75	.77	.18	.95
82-07-30	1300	138	.440	.370	.070	L.01	.75	.77	.13	.90
82-08-02	1300	138	.420	.380	.040	L.01	.75	.75	.19	.94
82-08-05	1300	138	.420	.370	.050	L.01	.77	.78	.18	.96
82-08-08	1300	138	.410	.340	.070	L.01	.79	.79	.41	1.20
82-08-11	1300	138	.430	.370	.060	L.01	.73	.76	.14	.90
82-08-14	1300	138	.420	.360	.060	L.01	.72	.74	.12	.86
82-08-17	1300	138	.440	.370	.070	L.01	.71	.73	.13	.86
82-08-20	1300	138	.420	.340	.080	L.01	.70	.75	.24	.99
82-08-23	1300	138	.410	.370	.040	L.01	.71	.70	.27	.97
82-08-26	1300	138	.450	.350	.100	L.01	.66	.74	.62	1.40
82-08-29	1300	138	.450	.350	.100	L.01	.72	.72	.62	1.30
82-09-01	1300	138	.480	.390	.090	.01	.71	.72	.30	1.00
82-09-04	1300	138	.470	.380	.090	L.01	.69	.71	.41	1.10
82-09-07	1815	138	.430	.400	.030	.01	.67	.71	.23	.94
82-09-10	1515	138	.450	.380	.070	L.01	.70	.76	.32	1.10
82-09-13	1815	138	--	--	.090	.05	.67	.67	.38	1.10

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-09-16	1315	138	.440	.380	.060	.01	.64	.64	.34	.98
82-09-19	1015	138	.420	.350	070	L.01	.66	.71	.43	1.10
82-09-22	1230	138	.480	.410	.070	.02	.70	.69	.28	.97
82-09-25	1455	138	.440	.410	030	.01	.71	.69	.21	.90
82-09-28	1835	138	.440	.400	.040	.02	.79	.75	.16	.91
82-10-01	1300	138	.460	.420	.040	.02	.89	.86	.16	1.00
82-10-04	1300	138	.750	400	.350	.03	.90	.88	1.00	1.90
82-10-07	1300	138	.440	.430	.010	L.01	.72	.75	L.01	.75
82-10-10	1300	138	.480	420	.060	.05	.73	.69	.48	1.20
82-10-13	1300	138	.500	.400	100	03	.80	.81	.29	1.10
82-10-16	1300	138	.460	.420	.040	.03	.81	.85	.12	.97
82-10-19	1400	138	460	430	.030	.05	.89	.86	.16	1.00
82-10-22	1400	138	460	.420	.040	.04	.83	.82	.12	.94
82-10-25	1400	138	480	.460	020	.05	.83	.83	.12	.95
82-10-28	1400	138	.560	400	.160	12	.95	1.00	.52	1.50
82-10-31	1400	138	.500	.460	.040	.05	.85	.81	11	.92
82-11-03	1400	138	.500	460	.040	08	.86	.83	.17	1.00
82-11-06	1500	138	460	460	L.006	09	.90	.90	.11	1.00
82-11-09	1500	138	.440	.410	030	.06	.86	.86	.08	.94
82-11-12	1600	138	.440	410	.030	.06	.84	.80	.08	.88
82-11-15	1400	138	.520	410	110	.07	.90	.91	.13	1.00
82-11-18	1400	138	480	430	.050	.06	.88	.88	.08	.96
82-11-21	1400	138	660	450	.210	07	.94	.89	1.30	2.20
82-11-24	1500	138	.430	.330	100	.09	.93	.91	.07	.98
82-11-27	1300	138	.430	.420	010	.09	.96	.95	.06	1.00
82-11-30	1400	138	.430	.420	.010	.09	.80	.88	.13	1.00
82-12-03	1300	138	.430	.420	010	.09	.88	.85	06	.91
82-12-06	1400	138	--	400	--	09	.88	.85	06	.91
82-12-09	1400	138	390	.350	040	09	.97	.97	L.01	.97
82-12-12	1400	138	.390	.370	.020	10	.94	.93	.04	.97
	1449	138	400	.360	.040	09	95	.93	.07	1.00
82-12-15	1400	138	.400	340	.060	10	--	.83	.11	.94
82-12-18	1400	138	440	400	.040	10	.98	89	04	93
82-12-21	1400	138	--	--	-	10	97	97	06	1.00
82-12-24	1400	138	--	--	--	.10	1.00	1.00	.11	1.10
82-12-27	1400	138	-	--	--	10	96	.93	.12	1.10
82-12-30	1200	138	520	-	-	11		.95	.04	.99

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-01	1300	138	--	--	11.0	.47	11.5	--	--	--
82-01-04	1300	138	--	--	11.0	.61	11.6	--	--	--
82-01-07	1300	138	--	--	11.0	.26	11.3	--	--	--
82-01-10	1300	138	--	--	11.0	.28	11.3	--	--	--
82-01-13	1300	138	--	--	10.0	.26	10.3	--	--	--
82-01-16	1300	138	--	--	11.0	.41	11.4	--	--	--
82-01-19	1300	138	--	--	11.0	.26	11.3	--	--	--
82-01-22	1300	138	--	--	11.0	.18	11.2	--	--	--
82-01-25	1300	138	--	--	10.0	.27	10.3	--	--	--
82-01-28	1300	138	--	--	11.0	.28	11.3	--	--	--
82-01-31	1300	138	--	--	11.0	.22	11.2	--	--	--
82-02-03	1400	138	--	--	11.0	.47	11.5	--	--	--
82-02-06	1300	138	--	--	12.0	.23	12.2	--	--	--
82-02-09	1300	138	--	--	12.0	.29	12.3	--	--	--
82-02-12	1300	138	--	--	11.0	.18	11.2	--	--	--
82-02-15	1300	138	--	--	11.0	1.50	12.5	--	--	--
82-02-18	1200	138	--	--	12.0	.22	12.2	--	--	--
82-02-21	1345	138	--	--	11.0	.69	11.7	--	--	--
82-02-24	1100	138	--	--	12.0	.45	12.5	--	--	--
82-02-27	1300	138	--	--	12.0	.26	12.3	--	--	--
82-03-02	1300	138	--	--	12.0	.24	12.2	--	--	--
82-03-05	1300	138	--	--	11.0	.25	11.3	--	--	--
82-03-08	1300	138	--	--	11.0	.25	11.3	--	--	--
82-03-11	1300	138	--	--	12.0	.29	12.3	--	--	--
82-03-14	1300	138	--	--	11.0	.30	11.3	--	--	--
82-03-17	1300	138	--	--	11.0	.38	11.4	--	--	--
82-03-20	1300	138	--	--	11.0	.28	11.3	--	--	--
82-03-23	1300	138	--	--	11.0	1.20	12.2	--	--	--
82-03-26	1300	138	--	--	11.0	.30	11.3	--	--	--
82-03-29	1300	138	--	--	11.0	.33	11.3	--	--	--
82-04-01	1100	138	--	--	11.0	.69	11.7	--	--	--
82-04-04	1300	138	--	--	11.0	.37	11.4	--	--	--
82-04-07	1300	138	--	--	10.0	.32	10.3	--	--	--
82-04-10	1300	138	--	--	11.0	.30	11.3	--	--	--
82-04-13	1300	138	--	--	10.0	.40	10.4	--	--	--
82-04-16	1200	138	--	--	9.5	2.00	11.5	--	--	--
82-04-19	1300	138	--	--	10.0	1.80	11.8	--	--	--
82-04-22	1259	138	--	--	9.7	1.80	11.5	--	--	--
82-04-25	1300	138	--	--	7.9	3.10	11.0	--	--	--
82-04-28	1300	138	--	--	9.7	.95	10.7	--	--	--
82-05-01	1300	138	--	--	9.9	.78	10.7	--	--	--
82-05-04	1300	138	--	--	10.0	1.70	11.7	--	--	--
82-05-07	1300	138	--	--	10.0	1.00	11.0	--	--	--
82-05-10	1300	138	--	--	11.0	.90	11.9	--	--	--
82-05-13	1300	138	--	--	11.0	.63	11.6	--	--	--
82-05-16	1300	138	--	--	11.0	.88	11.9	--	--	--
82-05-19	1300	138	--	--	10.0	.85	10.9	--	--	--
82-05-22	1300	138	--	--	10.0	.55	10.6	--	--	--
82-05-25	1300	138	--	--	10.0	1.10	11.1	--	--	--
82-05-28	1000	138	--	--	11.0	1.20	12.2	--	--	--
82-05-31	1300	138	--	--	11.0	1.10	12.1	--	--	--
82-06-03	1100	138	--	--	10.0	.70	10.7	--	--	--
82-06-06	1300	138	--	--	11.0	1.70	12.7	--	--	--
82-06-09	1300	138	--	--	10.0	2.00	12.0	--	--	--
82-06-12	1300	138	--	--	11.0	1.50	12.5	--	--	--
82-06-15	1300	138	--	--	11.0	1.50	12.5	--	--	--
82-06-18	1300	138	--	--	12.0	1.60	13.6	--	--	--
82-06-21	1300	138	--	--	12.0	1.50	13.5	--	--	--
82-06-24	1300	138	--	--	11.0	1.30	12.3	--	--	--
82-06-27	1300	138	--	--	11.0	1.40	12.4	--	--	--
82-06-30	1300	138	--	--	12.0	.59	12.6	--	--	--
82-07-03	1300	138	--	--	11.0	.65	11.7	--	--	--
82-07-06	1100	138	--	--	11.0	1.20	12.2	--	--	--
82-07-09	1300	138	--	--	12.0	.53	12.5	--	--	--
82-07-12	1300	138	--	--	12.0	.69	12.7	--	--	--
82-07-15	1200	138	--	--	14.0	1.00	15.0	--	--	--
82-07-18	1300	138	--	--	10.0	1.00	11.0	--	--	--
82-07-21	1200	138	--	--	11.0	.73	11.7	--	--	--
82-07-24	1300	138	--	--	9.8	1.10	10.9	--	--	--
82-07-27	1300	138	--	--	9.8	1.20	11.0	--	--	--
82-07-30	1300	138	--	--	11.0	.77	11.8	--	--	--
82-08-02	1300	138	--	--	11.0	1.40	12.4	--	--	--
82-08-05	1300	138	--	--	12.0	1.20	13.2	--	--	--
82-08-08	1300	138	--	--	12.0	2.70	14.7	--	--	--
82-08-11	1300	138	--	--	12.0	.92	12.9	--	--	--
82-08-14	1300	138	--	--	12.0	.84	12.8	--	--	--
82-08-17	1300	138	--	--	12.0	.88	12.9	--	--	--
82-08-20	1300	138	--	--	12.0	1.50	13.5	--	--	--
82-08-23	1300	138	--	--	12.0	2.20	14.2	--	--	--
82-08-26	1300	138	--	--	13.0	4.30	17.3	--	--	--
82-08-29	1300	138	--	--	11.0	3.50	14.5	--	--	--
82-09-01	1300	138	--	--	11.0	2.00	13.0	--	--	--
82-09-04	1300	138	--	--	11.0	2.50	13.5	--	--	--
82-09-07	1615	138	--	--	11.0	1.60	12.6	--	--	--
82-09-10	1515	138	--	--	10.0	2.10	12.1	--	--	--
82-09-13	1615	138	--	--	10.0	2.20	12.2	--	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JL0001 LAT. 50D 38M 58S LONG. 103D 35M 20S
QU'APPELLE RIVER AT OUTLET OF KATEPWA LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-09-16	1315	138	--	--	11.0	2.30	13.3	--	--	--
82-09-19	1015	138	--	--	11.0	2.50	13.5	--	--	--
82-09-22	1230	138	--	--	11.0	1.80	12.8	--	--	--
82-09-25	1455	138	--	--	12.0	1.40	13.4	--	--	--
82-09-28	1835	138	--	--	11.0	.97	12.0	--	--	--
82-10-01	1300	138	--	--	11.0	.93	11.9	--	--	--
82-10-04	1300	138	--	--	11.0	10.00	21.0	--	--	--
82-10-07	1300	138	--	--	11.0	.83	11.8	--	--	--
82-10-10	1300	138	--	--	11.0	2.50	13.5	--	--	--
82-10-13	1300	138	--	--	11.0	1.60	12.6	--	--	--
82-10-16	1300	138	--	--	9.8	.92	10.7	--	--	--
82-10-19	1400	138	--	--	11.0	1.10	12.1	--	--	--
82-10-22	1400	138	--	--	10.0	.76	10.8	--	--	--
82-10-25	1400	138	--	--	11.0	.84	11.8	--	--	--
82-10-28	1400	138	--	--	12.0	3.80	15.8	--	--	--
82-10-31	1400	138	--	--	11.0	.77	11.8	--	--	--
82-11-03	1400	138	--	--	12.0	1.20	13.2	--	--	--
82-11-06	1500	138	--	--	10.0	.83	10.8	--	--	--
82-11-09	1500	138	--	--	10.0	.57	10.6	--	--	--
82-11-12	1600	138	--	--	9.7	1.80	11.5	--	--	--
82-11-15	1400	138	--	--	10.0	.95	11.0	--	--	--
82-11-18	1400	138	--	--	10.0	57	10.6	--	--	--
82-11-21	1400	138	--	--	11.0	10.00	21.0	--	--	--
82-11-24	1500	138	--	--	11.0	.48	11.5	--	--	--
82-11-27	1300	138	--	--	10.0	.40	10.4	--	--	--
82-11-30	1400	138	--	--	11.0	.95	12.0	--	--	--
82-12-03	1300	138	--	--	11.0	42	11.4	--	--	--
82-12-06	1400	138	--	--	10.0	37	10.4	--	--	--
82-12-09	1400	138	--	--	11.0	.42	11.4	--	--	--
82-12-12	1400	138	--	--	11.0	.32	11.3	--	--	--
	1449	138	--	--	11.0	.43	11.4	--	--	--
82-12-15	1400	138	--	--	12.0	1.30	13.3	--	--	--
82-12-18	1400	138	--	--	12.0	41	12.4	--	--	--
82-12-21	1400	138	--	-	12.0	.55	12.6	-	--	--
82-12-24	1400	138	--	--	12.0	78	12.8	--	--	--
82-12-27	1400	138	--	--	12.0	.82	12.8	--	--	--
82-12-30	1200	138	-	--	12.0	35	12.4	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JM0014 — LAT. 50D 29M 2S LONG. 101D 32M 35S
QU'APPELLE RIVER APPROX. 3.2KM. SOUTH OF WELBY SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-25	1130	462	.0	19.4	1767.	1780.	7.9	7.7	--	6.7
82-02-22	1245	462	.0	12.8	1707.	1670.	7.9	7.7	--	5.0
82-03-22	1205	462	.5	22.2	1575.	1660.	8.1	8.0	--	5.0
82-04-29	1030	462	8.5	21.8	1130.	1062.	8.0	7.8	--	68.0
82-05-25	1320	462	11.5	21.8	1541.	1300.	8.2	8.2	--	33.0
82-06-14	1300	462	19.0	20.1	1475	1430.	8.0	8.2	--	27.0
82-07-12	1300	462	24.0	17.8	1537.	1430.	8.6	8.3	--	15.0
82-08-09	1215	462	19.0	25.1	1300.	1472.	8.3	8.3	--	25.0
82-09-20	1200	462	11.0	21.1	1532.	1470.	8.3	8.3	33.0	24.0
82-10-25	1255	462	7.5	10.6	1534.	1460	8.2	8.3	14.0	30.0
82-11-22	1220	462	.0	11.8	1583	1550.	8.3	8.2	--	41.0
82-12-07	1330	462	.0	19.1	1616.	1517.	8.2	8.1	18.0	11.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-01-25	1130	462	30.	24.	11.	.006	20.	2.	--	5.7
82-02-22	1245	462	30.	9.	7.	.003	6.	L2	--	5.6
82-03-22	1205	462	20.	6.	9.	.008	14.	6	--	11.0
82-04-29	1030	462	50.	283.	258.	030	--	--	--	10.0
82-05-25	1320	462	20.	98	91.	.002	--	2.	--	8.9
82-06-14	1300	462	10.	74.	62	006	--	-	--	7.7
82-07-12	1300	462	20.	32	27	.090	--	6.	--	11.1
82-08-09	1215	462	20.	77.	68.	.020	14.	12.	--	8.8
82-09-20	1200	462	10.	41.	35	.006	6.	4.	--	10.4
82-10-25	1255	462	10.	66.	59.	006	16.	10	-	11.3
82-11-22	1220	462	10.	84	80.	010	L2.	12.	-	12.3
82-12-07	1330	462	30.	18	16.	005	--	--	-	10.6

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-25	1130	462	0	.0	427.	350.0	85.50	75.0	522.3	170.0
82-02-22	1245	462	0	.0	415.	340.0	96.50	75.0	549.7	110.0
82-03-22	1205	462	0.	.0	378.	310.0	81.20	65.0	470.4	190.0
82-04-29	1030	462	0	.0	244.	200.0	57.00	40.0	307.0	120.0
82-05-25	1320	462	0	.0	305.	250.0	67.10	59.0	410.5	165.0
82-06-14	1300	462	0	.0	323.	265.0	69.80	55.0	400.7	170.0
82-07-12	1300	462	0.	.0	341.	280.0	72.10	59.0	422.9	180.0
82-08-09	1215	462	0.	.0	335.	275.0	75.10	62.0	442.8	166.0
82-09-20	1200	462	0.	.0	360.	295.0	80.20	65.0	467.9	202.0
82-10-25	1255	462	0.	.0	335.	275.0	71.70	57.0	413.7	205.0
82-11-22	1220	462	0.	.0	354.	290.0	73.30	68.0	463.0	220.0
82-12-07	1330	462	0.	.0	354.	290.0	74.30	63.0	444.9	231.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-25	1130	462	17.0	84.0	.31	460.	16.0	1118	--	.003
82-02-22	1245	462	16.0	84.0	.24	460.	17.0	1063	--	.003
82-03-22	1205	462	18.0	90.0	.24	450.	14.0	1094.	--	.005
82-04-29	1030	462	13.0	53.0	.17	300.	13.0	716.	--	.003
82-05-25	1320	462	17.0	73.0	18	400.	10.0	941.	--	.002
82-06-14	1300	462	18.0	85.0	.20	420.	12.0	989	--	.004
82-07-12	1300	462	17.0	76.0	.21	410.	14.0	996.	--	.004
82-08-09	1215	462	18.0	80.0	.23	410.	16.0	992.	--	.004
82-09-20	1200	462	18.0	79.0	.23	410.	14.0	1045.	--	.006
82-10-25	1255	462	18.0	85.0	.27	490.	14.0	1106.	-	.003
82-11-22	1220	462	18.0	90.0	.30	465.	13.0	1121	--	.003
82-12-07	1330	462	18.0	91.0	.23	500.	13.0	1164.	--	.001

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JM0014 LAT. 50D 29M 2S LONG. 101D 32M 35S
QU'APPELLE RIVER APPROX. 3.2KM. SOUTH OF WELBY SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-25	1130	462	.290	.260	.030	.34	1.00	1.10	.08	1.18
82-02-22	1245	462	.270	.250	.020	.44	1.00	1.00	.08	1.08
82-03-22	1205	462	.290	.260	.030	.35	.98	1.10	.13	1.23
82-04-29	1030	462	.450	.120	.330	.07	.55	.57	1.20	1.77
82-05-25	1320	462	.230	.150	.080	L.01	.50	.51	.29	.80
82-06-14	1300	462	.290	.190	.100	L.01	.55	.55	.32	.87
82-07-12	1300	462	.250	.080	.170	L.01	.64	1.00	.60	1.60
82-08-09	1215	462	.240	.160	.080	L.01	.59	.59	.52	1.10
82-09-20	1200	462	.170	.110	.060	L.01	.50	.50	.23	.73
82-10-25	1255	462	.240	.170	.070	.04	.59	.60	.29	.89
82-11-22	1220	462	.260	.190	.070	.05	.59	.59	.24	.83
82-12-07	1330	462	.200	.180	.020	.12	.73	.72	.12	.84

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-25	1130	462	L.1	.220	9.1	.56	9.7	.38 05D	.0054	L.0005
82-02-22	1245	462	L.1	.200	9.6	.44	10.0	.41 05D	.0059	L.0005
82-03-22	1205	462	L.1	.230	9.5	.67	10.2	.38 05D	.0064	L.0005
82-04-29	1030	462	L.1	.100	9.3	6.70	16.0	.26 05D	.0050	L.0005
82-05-25	1320	462	L.1	.130	9.1	2.20	11.3	.33 05D	.0056	L.0005
82-06-14	1300	462	L.1	.140	10.0	2.20	12.2	.34 05D	.0059	L.0005
82-07-12	1300	462	L.1	.051	9.8	3.30	13.1	.34 05D	.0062	L.0005
82-08-09	1215	462	L.1	.140	9.7	3.20	12.9	.34 05D	.0088	L.0005
82-09-20	1200	462	L.1	.085	8.7	1.40	10.1	.32 05D	.0061	L.0005
82-10-25	1255	462	L.1	.074	8.8	2.10	10.9	.40 05D	.0066	L.0005
82-11-22	1220	462	L.1	.150	9.6	1.90	11.5	.34 05D	.0064	.0008
82-12-07	1330	462	L.1	.130	8.7	.99	9.7	.38 05D	.0060	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-25	1130	462	L.06	--	--	.21	--	L.04	.03	.001
82-02-22	1245	462	.10		--	.17	--	L.04	L.02	.003
82-03-22	1205	462	L.06	--	--	.12	--	L.04	L.02	L.001
82-04-29	1030	462	.63	--	--	.02	--	.04	.02	.020
82-05-25	1320	462	.37	--	--	.02	--	L.04	L.02	.010
82-06-14	1300	462	.18		--	.03	--	L.04	.02	.011
82-07-12	1300	462	.08	--	--	.06	--	L.04	.03	.009
82-08-09	1215	462	.23	--	--	.07	--	L.04	L.02	.011
82-09-20	1200	462	.21	--	--	.07	--	L.04	.02	.007
82-10-25	1255	462	.72	--	--	.02	--	L.04	.03	.008
82-11-22	1220	462	.20	--	--	.03	--	L.04	.07	.007
82-12-07	1330	462	.11	--	--	.20	--	L.04	.02	.003

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-25	1130	462	L.015	L.002	.004	.002	.014	.001	--	L.004
82-02-22	1245	462	L.015	L.002	.004	.002	.004	L.001	.07	L.004
82-03-22	1205	462	L.015	L.002	L.002	.002	.001	L.001	.07	L.004
82-04-29	1030	462	L.015	.004	.013	.009	.016	L.001	.12	.005
82-05-25	1320	462	L.015	L.002	.004	.004	.007	L.001	.06	L.004
82-06-14	1300	462	L.015	L.002	.003	.003	.006	L.001	.06	.006
82-07-12	1300	462	L.015	L.002	.006	.003	.006	L.001	.07	L.004
82-08-09	1215	462	L.015	L.002	.008	.003	.013	L.001	.10	L.004
82-09-20	1200	462	L.015	L.002	L.002	.002	.008	L.001	.06	L.004
82-10-25	1255	462	L.015	L.002	.003	.003	.008	L.001	.08	L.004
82-11-22	1220	462	L.015	L.002	.004	.002	.009	L.001	.07	L.004
82-12-07	1330	462	L.015	L.002	.002	.001	.004	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05JM0014
QU'APPELLE RIVER APPROX. 3.2KM. SOUTH OF WELBY SASKATCHEWAN

LAT. 50D 29M 2S LONG. 101D 32M 35S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-25	1130	462	L.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-02-22	1245	462	.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-03-22	1205	462	.030	L1.0	L1.0	L.001	.005	L.001	L.001	L.002
82-04-29	1030	462	.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-05-25	1320	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-06-14	1300	462	.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-07-12	1300	462	.001	L1.0	L1.0	L.001	.001	L.001	L.001	L.002
82-08-09	1215	462	.003	L1.0	L1.0	L.001	.005	L.001	L.001	L.002
82-09-20	1200	462	.009	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-10-25	1255	462	.002	--	--	L.001	.004	L.001	L.001	L.002
82-11-22	1220	462	.001	--	--	L.001	.002	L.001	L.001	L.002
82-12-07	1330	462	.002	--	--	L.001	.003	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-25	1130	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-22	1245	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-22	1205	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-29	1030	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-25	1320	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-14	1300	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-12	1300	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-09	1215	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-20	1200	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-25	1255	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-22	1220	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-07	1330	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-25	1130	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-22	1245	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-22	1205	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-29	1030	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-25	1320	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-14	1300	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-12	1300	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-09	1215	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-20	1200	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-25	1255	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-22	1220	462	L.002	L.0020	L.001	L.003	L.002	L.2	.020	L.009
82-12-07	1330	462	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
									.040	

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-25	1130	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-22	1245	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-22	1205	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-29	1030	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-25	1320	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-14	1300	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-12	1300	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-09	1215	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-20	1200	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-25	1255	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-22	1220	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-07	1330	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00SA05KH0002 LAT. 53D 36M OS LONG. 102D 7M OS
CARROT RIVER NEAR TURNBERRY. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-26	1230	462	.0	18.9	3430.	3390.	7.4	7.3	--	36.0
82-02-23	1130	462	.0	12.1	4260.	4080.	7.4	7.1	--	140.0
82-03-23	1130	462	.5	21.9	4625.	4770.	7.3	7.1	--	105.0
82-04-28	1100	462	8.5	21.5	454.	440.	7.5	7.5	--	150.0
82-05-26	1100	462	17.0	21.6	519.	480.	7.6	7.7	--	14.0
82-06-15	1115	462	19.0	21.1	557.	539.	7.5	7.6	--	14.0
82-07-13	1045	462	20.0	18.7	795.	709	7.6	7.9	--	6.5
82-08-10	1015	462	17.8	25.5	1088.	1124.	8.0	8.1	--	3.8
82-09-21	1145	462	11.0	21.1	1204.	1180.	8.2	8.0	8.4	5.0
82-10-26	1145	462	5.0	10.6	958.	913.	7.8	7.9	3.6	8.2
82-11-23	1130	462	1.0	14.3	1752.	1720.	7.4	7.4	--	8.0
82-12-08	1110	462	.0	17.8 61R	2240.	2230. 41R	7.5	7.4 01R	11.0	7.4 73R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-26	1230	462	140.	17.	10.	.002	2.	L2.	--	.6
82-02-23	1130	462	60.	39.	27.	.006	L2.	L2.	--	1.0
82-03-23	1130	462	20.	36.	29.	L.001	L2.	L2.	--	.0
82-04-28	1100	462	80.	475.	430.	.016	L10.	L10.	--	9.0
82-05-26	1100	462	60.	33.	29.	.008	10.	10.	--	7.4
82-06-15	1115	462	60	29.	23.	.007	--	--	--	6.6
82-07-13	1045	462	50.	9.	6.	.009	10	8.	--	6.5
82-08-10	1015	462	70.	6.	4.	.007	--	20.	--	8.4
82-09-21	1145	462	30.	7.	4.	.001	4.	L2.	--	10.1
82-10-26	1145	462	30	9.	7.	003	L2.	L2.	--	11.6
82-11-23	1130	462	30.	6.	4.	.006	--	18.	--	5.7
82-12-08	1110	462	20 21R	6 01R	2. 01R	.001 171	--	--	--	1.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-26	1230	462	0	0	488	400.0	133.00	49.0	533.8	520.0
82-02-23	1130	462	0.	.0	549.	450.0	102.00	56.0	485.3	664.0
82-03-23	1130	462	0.	0	549.	450.0	182.00	59.0	697.4	800.0
82-04-28	1100	462	0.	0	128	105.0	38.80	12.1	146.7	26.0
82-05-26	1100	462	0.	0	189.	155.0	50.40	17.2	196.7	36.0
82-06-15	1115	462	0	0	195.	160.0	55.80	18.8	216.7	36.0
82-07-13	1045	462	0.	0	244.	200.0	61.80	20.8	240.0	60.0
82-08-10	1015	462	0.	0	280	230.0	69.70	27.1	285.6	124.0
82-09-21	1145	462	0.	.0	268.	220.0	67.00	24.5	268.2	160.0
82-10-26	1145	462	0.	.0	244.	200.0	62.40	21.9	246.0	115.0
82-11-23	1130	462	0.	.0	378.	310.0	99.00	34.3	388.4	258.0
82-12-08	1110	462	0.	.0 51R	402.	330.0 01R	114.00 03R	39.5 02R	447.3	340.0 03R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-26	1230	462	16.0	840.0	.34	114.	20.0	1932.	6.000	.001
82-02-23	1130	462	17.0	1030.0	.24	128.	19.0	2286.	L1.000	.001
82-03-23	1130	462	24.0	1280.0	.30	134.	20.0	2769	L1.000	003
82-04-28	1100	462	6.4	47.0	.14	36.	7.8	237.	--	.012
82-05-26	1100	462	5.9	51.0	.13	38.	8.8	300.	--	.002
82-06-15	1115	462	5.2	48.0	.14	60.	9.4	329.	--	.003
82-07-13	1045	462	4.4	97.0	.14	34.	12.0	410.	--	.002
82-08-10	1015	462	6.2	208.0	.22	35.	9.7	618.	--	.004
82-09-21	1145	462	7.6	245.0	14	36	7.9	680.	--	.005
82-10-26	1145	462	5.8	175.0	.20	37.	9.4	547.		.002
82-11-23	1130	462	8.8	385.0	.22	70.	14.0	1055.	L1.000	.001
82-12-08	1110	462	11.0 03R	510.0 06R	.19 05R	103. 06R	16.0 05R	1332.	L1.000 04W	L.001 04W

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05KH0002 LAT. 53D 36M 0S LONG. 102D 7M 0S
CARROT RIVER NEAR TURNBERRY, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-26	1230	462	.097	.015	.082	L.01	.70	.70	.14	.84
82-02-23	1130	462	.170	.038	.132	.01	1.10	1.10	.32	1.42
82-03-23	1130	462	.170	.025	.145	L.01	1.20	1.20	.28	1.48
82-04-28	1100	462	.460	.033	.427	.88	1.20	1.20	1.10	2.30
82-05-26	1100	462	.058	.017	.041	L.01	.52	.52	.15	.67
82-06-15	1115	462	--	.033	--	L.01	.57	.55	L.01	Q.56
82-07-13	1045	462	.049	.024	.025	.01	.59	.67	.12	.79
82-08-10	1015	462	.030	.015	.015	L.01	.62	.61	L.01	.61
82-09-21	1145	462	.024	.010	.014	L.01	.47	.48	L.01	.48
82-10-26	1145	462	.027	.009	.018	L.01	.41	.41	.05	.46
82-11-23	1130	462	.027	.010	.017	.03	.48	.48	.05	.53
82-12-08	1110	462	.026 06R	.006 03V	.020	.03 10V	.51 51V	.50 51R	.04 02R	.54
	1110	462	--	--	.020 01R	-	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-26	1230	462	L.1	L.003	12.0	1.30	13.3	.40 05D	.0010	L.0005
82-02-23	1130	462	1.1	L.003	12.0	3.20	15.2	.41 05D	.0010	L.0005
82-03-23	1130	462	1.4	.007	10.0	2.80	12.8	.41 05D	.0007	L.0005
82-04-28	1100	462	.2	L.003	10.0	12.10	22.1	.20 05D	.0006	L.0005
82-05-26	1100	462	L.1	L.003	14.0	.75	14.8	.17 05D	L.0005	L.0005
82-06-15	1115	462	L.1	.006	19.0	1.60	20.6	.18 05D	.0006	L.0005
82-07-13	1045	462	L.1	L.003	15.0	.96	16.0	.16 05D	.0008	L.0005
82-08-10	1015	462	L.1	L.003	16.0	.39	16.4	.20 05D	.0008	L.0005
82-09-21	1145	462	L.1	L.003	13.0	.50	13.5	.18 05D	.0005	L.0005
82-10-26	1145	462	L.1	.003	12.0	.57	12.6	.20 05D	L.0005	L.0005
82-11-23	1130	462	.1	L.003	14.0	.44	14.4	.19 05D	.0005	L.0005
82-12-08	1110	462	.3 06W	L.003 56V	11.0 04R	.37 02R	11.4	.29 05V	.0005 04V	L.0005 02V

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-26	1230	462	L.06	--	--	3.00	--	4.10	.03	L.001
82-02-23	1130	462	L.06	--	--	3.30	--	14.00	L.02	.002
82-03-23	1130	462	L.06	--	--	2.80	--	9.00	L.02	L.001
82-04-28	1100	462	1.90	-	--	.16	--	.25	.04	.038
82-05-26	1100	462	.21	--	--	.05	--	.16	L.02	.003
82-06-15	1115	462	.45	--	--	.06	--	.19	.02	.001
82-07-13	1045	462	.06	--	--	.03	--	.15	L.02	.002
82-08-10	1015	462	.20	--	--	.04	-	.16	L.02	.001
82-09-21	1145	462	.11	--	--	.10	--	.14	.04	L.001
82-10-26	1145	462	.15	--	--	.07	-	.08	.03	.001
82-11-23	1130	462	.06	--	--	.57	--	.08	.06	.002
82-12-08	1110	462	.11 02W	--	--	1.20 04I	--	.09 04T	L.02 11W	L.001 20W

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-26	1230	462	L.015	.005	.015	.004	.013	L.001	.18	L.004
82-02-23	1130	462	L.015	.003	.005	.003	.005	L.001	.40	L.004
82-03-23	1130	462	L.015	L.002	.003	L.001	L.001	L.001	.35	L.004
82-04-28	1100	462	L.015	.006	.023	.027	.030	L.001	.12	.007
82-05-26	1100	462	L.015	L.002	.003	.001	.001	L.001	L.05	L.004
82-06-15	1115	462	L.015	L.002	.004	.004	.006	L.001	.05	L.004
82-07-13	1045	462	L.015	L.002	.002	.002	.007	L.001	.06	L.004
82-08-10	1015	462	L.015	L.002	L.002	L.001	.002	.002	.09	L.004
82-09-21	1145	462	L.015	L.002	L.002	.001	.002	L.001	.08	L.004
82-10-26	1145	462	L.015	L.002	.002	.001	.002	L.001	.07	L.004
82-11-23	1130	462	L.015	L.002	L.002	.001	.002	L.001	.11	L.004
82-12-08	1110	462	L.015 02W	L.002 20W	.002 20W	L.001 20W	.002 20W	L.001 20W	.10 20W	L.004 20W

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05KH0002
CARROT RIVER NEAR TURNBERRY, SASKATCHEWAN

LAT. 53D 36M 05 LONG. 102D 7M 05

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL - PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-26	1230	462	.002	L1.0	L1.0	L.001	.001	L.001	L.001	L.002
82-02-23	1130	462	.005	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-03-23	1130	462	.005	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-04-28	1100	462	.002	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-05-26	1100	462	.003	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-06-15	1115	462	.008	L1.0	L1.0	L.001	.004	.002	L.001	L.002
82-07-13	1045	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-08-10	1015	462	.003	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-09-21	1145	462	.003	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-10-26	1145	462	.003	--	--	L.001	.002	L.001	L.001	L.002
82-11-23	1130	462	.002	--	--	L.001	.001	L.001	L.001	L.002
82-12-08	1110	462	.002 35H	--	--	L.001 11R	L.001 75R	L.001 70R	L.001 30R	L.002 10R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-26	1230	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-23	1130	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-23	1130	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-28	1100	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-26	1100	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-15	1115	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-13	1045	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-10	1015	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-21	1145	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-26	1145	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-23	1130	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-08	1110	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-26	1230	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-23	1130	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-23	1130	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-28	1100	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-26	1100	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-15	1115	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-13	1045	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-10	1015	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-21	1145	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-26	1145	462	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-11-23	1130	462	L.002	L.0020	L.001	L.003	L.002	--	--	--
82-12-08	1110	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20H	L.004 00H	L.009 50H

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-26	1230	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-23	1130	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-23	1130	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-28	1100	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-26	1100	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-15	1115	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-13	1045	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-10	1015	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-21	1145	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-10-26	1145	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-23	1130	462	--	--	--	L.2	L.002	L.002	L.005	L.002
82-12-08	1110	462	L.004 55H	L.002 10H	L.004 40H	L.2 01H	L.002 59R	L.002 60R	L.005 62R	L.002 64R

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05KH0003 LAT. 53D 49M 59S LONG. 102D 58M 25S
DRAGLINE CHANNEL BELOW WSC CONTROL STRUCTURE NR. SQUAW RAPID SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-06	1000	487	1.0	20.4	390.	418.	8.1	8.0	--	3.4
82-02-16	1025	487	1.0	20.5	400.	438.	7.7	7.8	--	2.0
82-05-11	0700	487	2.0	20.3	325.	339.	--	8.0	--	5.8
82-05-18	2100	487	5.0	20.5	350.	373.	--	7.9	--	3.5
82-05-31	1500	487	10.0	21.8	315.	323.	--	8.0	--	5.6
82-06-14	1800	487	20.0	22.7	330.	313.	--	8.5	--	2.8
82-06-28	1530	487	--	22.8	360.	345.	8.2	8.3	-	2.7
82-07-12	1100	487	--	23.1	390.	377.	7.8	8.2	--	1.9
82-07-19	1530	487	--	24.2	370.	364.	7.6	8.3	--	2.3
82-08-02	1530	487	15.0	24.5	325.	325.	7.6	8.1	--	5.8
82-08-31	1600	487	10.0	23.4	320.	312.	--	8.2	--	2.1
82-10-18	1630	487	3.0	16.3	--	349.	8.0	8.6	--	2.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-06	1000	487	20.	2.	--	--	--	--	--	12.0
82-02-16	1025	487	20.	5	--	-	4.	4	-	11.6
82-05-11	0700	487	10.	10	--	--	--	--	--	12.5
82-05-18	2100	487	30	4	--	--	--	12.	--	12.3
82-05-31	1500	487	20	7	--	-	12	12.	--	--
82-06-14	1800	487	20	6.	-	-	--		--	--
82-06-28	1530	487	10	5	--	--	--	--	-	--
82-07-12	1100	487	20	7.	--	-	-	-	--	--
82-07-19	1530	487	20.	5.	--	-	--	-	--	9.4
82-08-02	1530	487	20	7	-	--	--	8		9.3
82-08-31	1600	487	20	3.	-	-	28	10	-	11.2
82-10-18	1630	487	20	9	-		2	12	--	14.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-06	1000	487	0	0	184	151.0	47.30	16.1	184.4	16.0
82-02-16	1025	487	0	0	195	160.0	52.00	17.9	203.5	17.0
82-05-11	0700	487	0	0	146	120.0	37.50	13.4	148.8	15.0
82-05-18	2100	487	0.	0	159	130.0	44.10	14.3	169.0	15.0
82-05-31	1500	487	0	0	140	115.0	36.50	12.1	141.0	13.0
82-06-14	1800	487	1	1.0	132	110.0	35.50	10.9	133.5	14.0
82-06-28	1530	487	0	0	146	120.0	38.60	13.4	151.6	16.0
82-07-12	1100	487	0.	0	159	130.0	41.30	13.8	159.9	17.0
82-07-19	1530	487	0.	0	165	135.0	41.10	13.9	159.9	15.0
82-08-02	1530	487	0	0	149.	122.0	39.10	12.5	149.1	11.0
82-08-31	1600	487	0.	0	140	115.0	37.20	12.3	143.5	10.0
82-10-18	1630	487	3	2.5	165.	140.0	44.00	14.0	167.5	15.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-06	1000	487	1.8	6.9	.20	52	1.6	232.	--	--
82-02-16	1025	487	2.1	7.7	.15	58.	3.6	254.	--	--
82-05-11	0700	487	1.8	7.9	.10	46	2.6	196.	--	--
82-05-18	2100	487	1.8	7.9	.15	50.	3.0	214.	--	--
82-05-31	1500	487	1.8	7.4	.15	42	2.5	184.	--	--
82-06-14	1800	487	2.6	6.9	.12	42	1.5	179	-	--
82-06-28	1530	487	3.2	5.7	.10	46.	.5	195.	--	--
82-07-12	1100	487	3.2	6.7	.17	50	1.6	212	--	--
82-07-19	1530	487	2.6	5.8	.17	48.	1.4	209.	--	--
82-08-02	1530	487	2.3	4.0	.15	36.	4.2	182.	--	-
82-08-31	1600	487	2.2	4.3	.13	36.	5.0	176	--	--
82-10-18	1630	487	2.3	6.0	.15	47	.1	212.	--	--

STATION - 00SA05KH0003 DRAGLINE CHANNEL BELOW WSC CONTROL STRUCTURE NR. SQUAW RAPID SASKATCHEWAN LAT. 53D 49M 59S LONG. 102D 56M 25S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-06	1000	487	.067	--	--	--	--	.32	L.01	0.33
82-02-16	1025	487	.030	.026 03L	.004	.34 10L	--	.53	L.01	0.54
82-05-11	0700	487	.061	--	--	.36 10L	--	.46	.09	.55
82-05-18	2100	487	.049	--	--	.40 10L	--	.44	.12	.56
82-05-31	1500	487	.034	--	--	.29 10L	--	.46	.07	.53
82-06-14	1800	487	.042	.015 03L	.027	.25 10L	--	.45	.15	.60
82-06-28	1530	487	.032	--	--	.02 10L	--	.29	.08	.37
82-07-12	1100	487	.062	--	--	.08 10L	--	.42	10	.52
82-07-19	1530	487	.035	--	--	.04 10L	--	.26	.11	.37
82-08-02	1530	487	.062	--	--	.32 10L	--	.55	.04	.59
82-08-31	1800	487	.080	--	--	.13 10L	--	.40	.05	.45
82-10-18	1630	487	.032	--	--	.02 10L	--	.26	.13	.39

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-06	1000	487	L.1	--	4.3	24	4.5	-	.0005 04L	--
82-02-16	1025	487	L.1	--	3.8	22	4.0	--	.0008 04L	--
82-05-11	0700	487	L.1	--	3.4	68	4.1	--	.0006 04L	--
82-05-18	2100	487	L.1	--	3.2	.70	3.9	--	.0006 04L	--
82-05-31	1500	487	L.1	--	3.7	49	4.2	-	L.0005 04L	--
82-06-14	1800	487	L.1	--	5.1	73	5.8	--	L.0005 04L	--
82-06-28	1530	487	L.1	--	6.1	.51	6.6	--	L.0005 04L	--
82-07-12	1100	487	L.1	--	5.7	69	6.4	--	.0005 04L	--
82-07-19	1530	487	L.1	--	4.9	63	5.5	--	.0008 04L	--
82-08-02	1530	487	L.1	--	6.0	30	6.3	--	.0008 04L	--
82-08-31	1600	487	.2	--	6.4	28	6.7	--	.0007 04L	--
82-10-18	1630	487	L.1	--	5.2	.87	6.1	-	.0008 04L	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-06	1000	487	-	--	.23	--	.05	-	--	-
82-02-16	1025	487	--	-	02	-	.08	-	-	--
82-05-11	0700	487	--	--	03	--	19	--	-	--
82-05-18	2100	487	--	-	.04	-	.22	-	--	--
82-05-31	1500	487	--	--	.03	-	22	-	--	-
82-06-14	1800	487	--	--	.02	-	.09	--	--	--
82-06-28	1530	487	--	--	.02	--	14	-	-	-
82-07-12	1100	487	--	--	03	-	.22	--	--	--
82-07-19	1530	487	--	--	03	-	08	-	--	--
82-08-02	1530	487	--	--	.03	--	.20	-	--	--
82-08-31	160C	487	--	--	.02	--	.07	--	--	--
82-10-18	1630	487	--	--	.02	--	07	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-06	1000	487	--	--	--	002	--	--	--	L.004
82-02-16	1025	487	--	--	--	.003	--	--	--	.004
82-05-11	0700	487	--	--	--	.009	--	-	--	L.004
82-05-18	2100	487	--	--	--	.001	--	--	--	L.004
82-05-31	1500	487	--	--	--	.002	--	--	--	L.004
82-06-14	1800	487	--	--	--	.006	--	--	--	L.004
82-06-28	1530	487	--	--	--	002	--	--	--	.005
82-07-12	1100	487	--	-	--	.003	--	--	--	L.004
82-07-19	1530	487	--	--	--	.002	-	--	--	L.004
82-08-02	1530	487	--		-	.002	-	-	--	L.004
82-08-31	1800	487	--	--	--	.002	--	--	--	L.004
82-10-18	1630	487	--	--	--	.002	--	--	--	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05KH0003 LAT. 53D 49M 59S LONG. 102D 56M 25S
DRAGLINE CHANNEL BELOW WSC CONTROL STRUCTURE NR. SQUAW RAPID SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-06	1000	487	.003	--	--	--	--	--	--	--
82-02-16	1025	487	.003	--	--	--	--	--	--	--
82-05-11	0700	487	L.001	--	--	--	--	--	--	--
82-05-18	2100	487	.001	--	--	--	--	--	--	--
82-05-31	1500	487	.001	--	--	--	--	--	--	--
82-06-14	1800	487	.003	--	--	--	--	--	--	--
82-06-28	1530	487	.003	--	--	--	--	--	--	--
82-07-12	1100	487	.001	--	--	--	--	--	--	--
82-07-19	1530	487	.002	--	--	--	--	--	--	--
82-08-02	1530	487	L.001	--	--	--	--	--	--	--
82-08-31	1600	487	.004	--	--	--	--	--	--	--
82-10-18	1630	487	.001	--	--	--	--	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05KH0004 LAT. 53D 49M 59S LONG. 101D 57M 23S
BIRCH RIVER BELOW CUMBERLAND MARSHES DAM. NR. CUMBERLAND HOUSE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPFCIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-15	1415	487	1.0	20.5	650.	632.	7.6	7.1	--	4.0
82-05-10	1330	487	3.0	19.6	610.	611	--	7.5	--	6.4
82-05-18	1500	487	10.0	20.2	460.	480.	--	7.5	--	2.1
82-05-31	1200	487	10.0	21.7	480.	469.	--	7.6	--	1.5
82-06-14	1405	487	17.0	22.1	510.	488	--	7.8	--	1.3
82-06-28	1120	487	--	22.8	460.	522.	--	7.5	--	1.4
82-07-12	1030	487	--	23.1	610.	561.	7.7	8.0	--	.8
82-07-19	1130	487	18.0	24.4	640.	567.	--	7.9	--	1.3
82-08-02	1200	487	15.0	24.6	450.	460.	7.1	7.5	--	1.2
82-08-31	1145	487	10.0	23.4	515.	494.	--	7.6	--	1.7
82-10-18	1145	487	3.0	16.1	--	493.	--	7.9	--	1.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-02-15	1415	487	140	14.	--	--	4.	L2.	--	--
82-05-10	1330	487	70	8.	--	--	--	--	--	10.4
82-05-18	1500	487	30	4	--	--	--	2.	--	9.6
82-05-31	1200	487	30	1	--	--	--	4.	--	--
82-06-14	1405	487	40	1.	--	--	--	--	--	--
82-06-28	1120	487	40	4	--	--	--	--	--	--
82-07-12	1030	487	40	2.	--	--	--	--	--	-
82-07-19	1130	487	50	1.	--	--	--	--	--	8.0
82-08-02	1200	487	40	2	--	-	18.	14	--	8.3
82-08-31	1145	487	30	2	--	-	2	L2.	--	10.6
82-10-18	1145	487	30	2	--	-	L2.	L2.	--	14.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-15	1415	487	0	0	268.	220.0	63.20	24.6	259.1	40.0
82-05-10	1330	487	0	0	256.	210.0	49.30	23.6	220.3	44.0
82-05-18	1500	487	0	0	177.	145.0	42.80	15.1	169.0	30.0
82-05-31	1200	487	0	0	201.	165.0	44.90	16.1	178.4	26.0
82-06-14	1405	487	0	0	201.	165.0	45.90	16.5	182.5	30.0
82-06-28	1120	487	0.	0	219.	180.0	48.00	20.1	202.6	35.0
82-07-12	1030	487	0	0	226.	185.0	48.80	21.2	209.1	40.0
82-07-19	1130	487	0	0	244.	200.0	49.20	22.1	213.8	41.0
82-08-02	1200	487	0.	0	159.	130.0	34.60	17.1	156.8	36.0
82-08-31	1145	487	0	0	165.	135.0	35.40	18.2	163.3	34.0
82-10-18	1145	487	0	.0	189.	155.0	40.80	19.0	180.1	44.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-15	1415	487	6.1	57.0	15	44.	6.4	373.	--	--
82-05-10	1330	487	5.6	76.0	11	9.	6.2	340.	--	--
82-05-18	1500	487	4.8	56.0	.12	11.	1.4	248	--	--
82-05-31	1200	487	4.9	50.0	.12	12.	1.3	254.	--	--
82-06-14	1405	487	5.4	54.0	.11	13.	.8	265.	--	--
82-06-28	1120	487	5.6	58.0	.14	10.	2.0	287.	--	--
82-07-12	1030	487	5.9	70.0	15	9.	3.6	310.	--	--
82-07-19	1130	487	6.1	70.0	17	9.	5.3	323.	--	--
82-08-02	1200	487	2.6	51.0	.16	24	2.5	246.	--	--
82-08-31	1145	487	3.0	63.0	.13	29.	2.6	266.	--	--
82-10-18	1145	487	4.1	57.0	.14	25	2.5	285.	--	--

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05KH0004
BIRCH RIVER BELOW CUMBERLAND MARSHES   DAM. NR. CUMBERLAND HOUSE. SASKATCHEWAN   LAT. 53D 49M 59S   LONG. 101D 57M 23S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-15	1415	487	.340	.220 03L	.120	L.01 10L	--	.90	.30	1.20
82-05-10	1330	487	.190	--	--	.01 10L	--	.72	.20	.92
82-05-18	1500	487	.048	--	--	L.01 10L	--	.45	.15	.60
82-05-31	1200	487	.032	--	--	.01 10L	--	46	.06	.52
82-06-14	1405	487	.031	--	--	L.01 10L	--	.57	.09	.66
82-06-28	1120	487	.049	--	--	L.01 10L	--	.65	.09	.74
82-07-12	1030	487	.070	--	--	L.01 10L	--	.93	07	1.00
82-07-19	1130	487	.036	--	--	.01 10L	--	83	.08	.91
82-08-02	1200	487	055	--	--	.01 10L	--	.50	.11	.61
82-08-31	1145	487	.039	--	--	.10 10L	--	.48	.08	.56
82-10-18	1145	487	.041	--	--	L.01 10L	--	55	.10	.65

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-15	1415	487	L.1	--	14.0	1.70	15.7	--	.0010 04L	--
82-05-10	1330	487	L.1	--	18.0	1.30	19.3	--	.0005 04L	--
82-05-18	1500	487	L.1	--	10.0	99	11.0	--	L.0005 04L	--
82-05-31	1200	487	L.1	--	12.0	.42	12.4	--	L.0005 04L	--
82-06-14	1405	487	L.1	--	12.0	.46	12.5	--	L.0005 04L	--
82-06-28	1120	487	.3	--	16.0	.67	16.7	--	L.0005 04L	--
82-07-12	1030	487	L.1	--	16.0	48	16.5	--	L.0005 04L	--
82-07-19	1130	487	L.1	--	18.0	52	18.5	--	.0005 04L	--
82-08-02	1200	487	L.1	--	9.6	67	10.3	--	.0005 04L	--
82-08-31	1145	487	1	--	8.9	.58	9.5	--	L.0005 04L	--
82-10-18	1145	487	L.1	--	9.9	.64	10.5	--	L.0005 04L	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-15	1415	487	--	--	1.10	--	3.50	--	--	--
82-05-10	1330	487	--	--	56	--	2.50	--	--	--
82-05-18	1500	487	--	--	07	--	57	--	--	--
82-05-31	1200	487	--	--	.05	--	40	--	--	--
82-06-14	1405	487	--	--	.05	--	25	--	--	--
82-06-28	1120	487	--	--	08	--	82	--	--	--
82-07-12	1030	487	--	--	04	--	.36	--	--	--
82-07-19	1130	487	--	--	04	--	36	--	--	--
82-08-02	1200	487	--	--	14	--	42	--	--	--
82-08-31	1145	487	--	--	05	--	53	--	--	--
82-10-18	1145	487		--	.03	--	20	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-15	1415	487	--	--	--	L.001	--	--	--	L.004
82-05-10	1330	487	--	--	--	.003	--	--	--	L.004
82-05-18	1500	487	--	--	--	.001	--	--	--	L.004
82-05-31	1200	487	--	--	--	.001	--	--	--	L.004
82-06-14	1405	487	--	--	--	004	--	--	--	L.004
82-06-28	1120	487	--	--	--	L.001	--	--	--	L.004
82-07-12	1030	487	--	--	--	L.001	--	--	--	L.004
82-07-19	1130	487	--	--	--	002	--	--	--	L.004
82-08-02	1200	487	--	--	--	L.001	--	--	--	L.004
82-08-31	1145	487	--	--	--	.001	--	--	--	L.004
82-10-18	1145	487	--	--	--	L.001	--	--	--	L.004

STATION - 00SA05KH0004 LAT. 53D 49M 59S LONG. 101D 57M 23S
BIRCH RIVER BELOW CUMBERLAND MARSHES DAM, NR CUMBERLAND HOUSE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-02-15	1415	487	.006	--	--	--	--	--	--	--
82-05-10	1330	487	.002	--	--	--	--	--	--	--
82-05-18	1500	487	.002	--	--	--	--	--	--	--
82-05-31	1200	487	.001	--	--	--	--	--	--	--
82-06-14	1405	487	.002	--	--	--	--	--	--	--
82-06-28	1120	487	.001	--	--	--	--	--	--	--
82-07-12	1030	487	.002	--	--	--	--	--	--	--
82-07-19	1130	487	.003	--	--	--	--	--	--	--
82-08-02	1200	487	.004	--	--	--	--	--	--	--
82-08-31	1145	487	.004	--	--	--	--	--	--	--
82-10-18	1145	487	.003	--	--	--	--	--	--	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05LC0001 LAT. 52D 52M 0S LONG. 102D 10M 59S
RED DEER RIVER AT ERWOOD. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-26	0840	462	.0	19.1	1165.	1110.	7.4	7.4	--	3.6
82-02-23	0845	462	.0	12.1	1300.	1230.	7.6	7.3	--	17.0
82-03-23	0900	462	.0	22.0	1074.	1090.	7.4	7.2	--	2.9
82-04-28	0815	462	3.0	22.0	285.	285.	7.9	7.5	--	3.8
82-05-26	0820	462	16.0	21.5	355.	364.	8.0	8.1	--	1.3
82-06-15	0800	462	16.0	24.2	329.	404.	8.1	8.3	--	2.9
82-07-13	0730	462	19.0	18.6	418.	383.	7.9	8.1	--	1.5
82-08-09	1915	462	20.0	25.4	--	384.	8.5	8.7	--	1.4
82-09-21	0830	462	10.0	21.1	336.	323.	8.3	8.4	2.2	1.3
82-10-26	0930	462	5.0	10.8	335.	312.	8.1	8.3	.5	1.0
82-11-23	0820	462	.0	12.8 61R	586.	590. 41R	8.0	8.0 01R	--	1.0 73R
82-12-08	0830	462	.0	19.0	841.	845.	7.7	7.6	1.8	1.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-26	0840	462	60.	9.	6.	.003	2.	2.	--	1.0
82-02-23	0845	462	80.	35.	28.	.002	8.	2.	--	3.6
82-03-23	0900	462	40.	5.	3.	L.001	L2.	L2.	--	2.1
82-04-28	0815	462	70.	23.	15.	.008	14.	L2.	--	12.2
82-05-26	0820	462	60.	2.	1.	.004	10.	10.	--	8.0
82-06-15	0800	462	80.	2.	1.	.004	--	--	--	8.1
82-07-13	0730	462	40.	2.	1.	.006	4.	2.	--	5.5
82-08-09	1915	462	50.	1.	1.	.001	8.	--	--	10.5
82-09-21	0830	462	40.	1.	L1.	.001	4.	L2.	--	9.5
82-10-26	0930	462	40.	L1.	L1.	.002	L2.	L2.	--	12.0
82-11-23	0820	462	40. 21R	L1. 01R	L1. 01R	.001 17T	L2. 02U	L2. 12U	--	11.4
82-12-08	0830	462	40.	8.	6.	.009	--	--	--	5.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-26	0840	462	0.	.0	658.	540.0	138.00	62.0	599.8	36.0
82-02-23	0845	462	-	.0			146.00	70.0	652.8	36.0
82-03-23	0900	462	0.	.0	628.	515.0	152.00	61.0	630.7	40.0
82-04-28	0815	462	0.	.0	128.	105.0	34.00	14.2	143.4	5.0
82-05-26	0820	462	0.	.0	177.	145.0	44.60	17.8	184.7	9.0
82-06-15	0800	462	0.	.0	189.	155.0	48.10	19.5	200.4	11.0
82-07-13	0730	462	0.	.0	195.	160.0	43.70	20.1	191.9	10.0
82-08-09	1915	462	9.	7.5	177.	160.0	41.80	21.8	194.1	13.0
82-09-21	0830	462	2.	1.5	179.	150.0	41.20	18.4	178.6	9.0
82-10-26	0930	462	0.	.0	195.	160.0	43.00	16.6	175.7	7.9
82-11-23	0820	462	0.	.0 51R	354.	290.0 01R	79.80 03R	32.3 02R	332.2	16.0 03R
82-12-08	0830	462	0.	.0	480.	394.0	100.00	47.6	445.7	31.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-26	0840	462	7.2	12.0	.28	136.	29.0	744.	--	.004
82-02-23	0845	462	8.0	18.0	.20	156.	33.0	--	--	.001
82-03-23	0900	462	7.5	17.0	.21	130.	30.0	747.	--	.004
82-04-28	0815	462	4.4	2.7	.08	36.	6.6	166.	--	.004
82-05-26	0820	462	3.6	3.1	.10	42.	4.6	212.	--	.002
82-06-15	0800	462	3.4	3.3	.09	52.	6.5	237.	--	.004
82-07-13	0730	462	3.4	3.2	.12	38.	5.6	220.	--	.004
82-08-09	1915	462	3.4	3.3	.17	43.	6.6	229.	--	.004
82-09-21	0830	462	2.7	2.7	.10	32.	5.9	202.	--	.004
82-10-26	0930	462	1.9	4.0	.14	21.	8.1	199.	-	.002
82-11-23	0820	462	4.0 03R	5.5 06R	.20 05R	62. 06R	14.0 05R	388.	--	.003 04W
82-12-08	0830	462	6.0	8.7	.16	110.	19.0	559.	--	.002

STATION - 00SA05LC0001 LAT. 52D 52M 05 LONG. 102D 10M 59S
RED DEER RIVER AT ERWOOD, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-26	0840	462	.015	.010	.005	.13	.94	.94	.04	.98
82-02-23	0845	462	.082	.064	.018	.01	1.60	1.50	.14	1.64
82-03-23	0900	462	.038	.019	.019	L.01	1.00	1.10	.06	1.16
82-04-28	0815	462	.100	.035	.065	.14	.68	.64	.28	.92
82-05-26	0820	462	.020	.006	.014	L.01	.46	.46	.06	.52
82-06-15	0800	462	.025	.016	.009	L.01	.55	.54	.06	.60
82-07-13	0730	462	.025	.021	L.006	.01	.61	.60	L.01	.60
82-08-09	1915	462	.015	.013	L.006	.01	.61	.58	.04	.62
82-09-21	0830	462	.014	.009	L.006	.01	.45	.45	L.01	.45
82-10-26	0930	462	--	.009	--	L.01	.41	.41	L.01	.41
82-11-23	0820	462	.016 06R	.010 03V	.006	L.01 10V	.54 51V	.54 51R	L.01 02R	Q.55
	0820	462	--	-	.006 01R	--	--	--	--	--
82-12-08	0830	462	.018	.010	.008	.05	.68	.67	L.01	.67

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104I CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002I CARBON TOTAL ORGANIC (CALCD.) MG/L	05105I BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-26	0840	462	L.1	L.003	26.0	.33	26.3	.22 05D	L.0005	L.0005
82-02-23	0845	462	1.2	.026	28.0	.78	28.8	.28 05D	.0015	L.0005
82-03-23	0900	462	1.3	.009	23.0	.33	23.3	.20 05D	.0008	L.0005
82-04-28	0815	462	.1	L.003	12.0	2.30	14.3	.14 05D	.0006	L.0005
82-05-26	0820	462	L.1	L.003	14.0	.46	14.5	.13 05D	.0006	L.0005
82-06-15	0800	462	L.1	L.003	19.0	.48	19.5	.14 05D	.0006	L.0005
82-07-13	0730	462	L.1	L.003	15.0	.37	15.4	.12 05D	.0010	L.0005
82-08-09	1915	462	L.1	L.003	15.0	.31	15.3	.12 05D	.0010	L.0005
82-09-21	0830	462	L.1	L.003	13.0	.31	13.3	.10 05D	.0006	L.0005
82-10-26	0930	462	L.1	.003	14.0	.18	14.2	.16 05D	L.0005	L.0005
82-11-23	0820	462	L.1 06W	L.003 56V	20.0 04R	.16 02R	20.2	.13 05V	.0005 04V	L.0005 02V
82-12-08	0830	462	.1	.007	23.0	.24	23.2	.19 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-26	0840	462	L.06	-	-	.48	--	.13	L.02	L.001
82-02-23	0845	462	L.06	--	--	2.90	-	1.70	L.02	L.001
82-03-23	0900	462	L.06	--	--	1.00	--	.46	L.02	L.001
82-04-28	0815	462	.10	--	--	.08	-	.07	L.02	.006
82-05-26	0820	462	.06	-	--	.03	--	.11	L.02	L.001
82-06-15	0800	462	.38	--	--	.04	--	.12	L.02	L.001
82-07-13	0730	462	.04	--	--	.07	--	.07	L.02	.001
82-08-09	1915	462	.20	--	--	.02	--	.04	L.02	L.001
82-09-21	0830	462	.07	--	--	.02	--	.07	L.02	L.001
82-10-26	0930	462	.02	--	-	L.01	--	.07	.03	L.001
82-11-23	0820	462	L.06 02W	-	--	L.01 04I	--	.07 04I	.04 11W	L.001 20W
82-12-08	0830	462	.10	--	--	.20	--	.05	.02	.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-26	0840	462	L.015	L.002	.003	.001	.012	L.001	.10	L.004
82-02-23	0845	462	L.015	L.002	.005	.002	.008	L.001	.19	L.004
82-03-23	0900	462	L.015	L.002	L.002	.001	.007	L.001	.15	L.004
82-04-28	0815	462	L.015	L.002	L.002	.011	.002	L.001	L.05	L.004
82-05-26	0820	462	L.015	L.002	L.002	L.001	.001	L.001	L.05	L.004
82-06-15	0800	462	L.015	L.002	L.002	.002	L.001	L.001	.05	L.004
82-07-13	0730	462	L.015	L.002	.003	.004	.013	L.001	.05	L.004
82-08-09	1915	462	L.015	L.002	.002	L.001	.005	L.001	.05	L.004
82-09-21	0830	462	L.015	L.002	L.002	.001	.004	L.001	L.05	L.004
82-10-26	0930	462	L.015	L.002	L.002	L.001	L.001	L.001	L.05	L.004
82-11-23	0820	462	L.015 02W	L.002 20W	L.002 20W	.002 20W	.002 20W	L.001 20W	L.05 20W	L.004 20W
82-12-08	0830	462	L.015	L.002	.002	.001	.005	L.001	.07	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05LC0001
RED DEER RIVER AT ERWOOD. SASKATCHEWAN LAT. 52D 52M 0S LONG. 102D 10M 59S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/l	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-26	0840	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-02-23	0845	462	.008	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-03-23	0900	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-04-28	0815	462	.004	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-05-26	0820	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-06-15	0800	462	.005	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-07-13	0730	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-08-09	1915	462	.003	L1.0	L1.0	L.001	.005	L.001	L.001	L.002
82-09-21	0830	462	.003	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-10-26	0930	462	.003	--	--	L.001	.002	L.001	L.001	L.002
82-11-23	0820	462	.003 35W	--	--	L.001 11R	.002 75R	L.001 70R	L.001 30R	L.002 10R
82-12-08	0830	462	.004	--	--	L.001	.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-26	0840	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-23	0845	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-23	0900	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-28	0815	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-26	0820	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-15	0800	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-13	0730	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-09	1915	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-21	0830	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-26	0930	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-23	0820	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-12-08	0830	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-26	0840	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-23	0845	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-23	0900	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-28	0815	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-26	0820	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-15	0800	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-13	0730	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-09	1915	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-21	0830	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-26	0930	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-23	0820	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-12-08	0830	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-26	0840	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-23	0845	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-23	0900	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-28	0815	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-26	0820	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-15	0800	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-13	0730	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-09	1915	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-21	0830	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-26	0930	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-11-23	0820	462	L.004 55W	L.002 10W	L.004 40W	--	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-12-08	0830	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05MD0002 LAT. 51D 31M 59S LONG. 101D 53M 20S
ASSINIBOINE RIVER AT HWY 8 BRIDGE BELOW KAMSACK, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-25	1550	462	.0	19.5 61R	1736.	1640. 41R	7.5	7.3 01R	--	6.2 73R
82-02-22	1620	462	.0	12.1	1650.	1570.	7.5	7.3	--	4.9
82-03-22	1515	462	.0	22.2	1256.	1280.	7.4	7.2	--	4.0
82-04-28	1715	462	9.0	21.5	490.	478.	7.8	7.8	--	5.0
82-05-25	1645	462	20.5	21.7	616.	597.	8.0	8.0	--	5.0
82-06-14	1715	462	20.0	21.1	740.	755.	8.1	8.1	--	4.2
82-07-12	1615	462	22.0	19.0	774.	743.	8.2	8.2	--	6.1
82-08-09	1200	462	19.0	25.2	835.	946.	8.1	8.1	--	4.8
82-09-20	1000	462	14.0	21.1	917.	895.	8.1	8.1	8.2	2.4
82-10-25	1540	462	6.5	10.7	1206.	1160.	8.1	8.0	1.8	3.3
82-11-24	1130	462	.0	12.6	1174.	1180.	7.8	7.9	--	3.5
82-12-09	1720	462	0	18.4	--	1187.	8.1	7.8	5.9	4.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002I COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-25	1550	462	60. 21R	16. 01R	13. 01R	.004 171	L2. 02U	L2. 12U	--	2.2
82-02-22	1620	462	50.	4	3.	.003	4.	L2.	--	2.2
82-03-22	1515	462	30.	6.	4.	L.001	18.	4.	--	4.1
82-04-28	1715	462	50.	20.	15	.030	500.	190.	--	9.9
82-05-25	1645	462	50.	17.	14.	.009	2.	2.	--	8.4
82-06-14	1715	462	30.	24.	18.	.007	--	--	--	7.8
82-07-12	1615	462	30	15	12.	.010	-	20.	--	7.6
82-08-09	1200	462	50.	10.	8.	.010	28.	--	--	7.7
82-09-20	1000	462	30	4.	2.	.005	20.	20.	--	8.7
82-10-25	1540	462	30	3.	1.	.004	20.	8.	--	10.5
82-11-24	1130	462	20	12.	10	.007	20.	10.	--	8.9
82-12-09	1720	462	5.	21	15.	003	--	--	--	7.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-25	1550	462	0	0 51R	780	640.0 01R	169.00 03R	97.0 02R	821.3	70.0 03R
82-02-22	1620	462	--	0	-	--	155.00	92.0	765.8	76.0
82-03-22	1515	462	0.	.0	610	500.0	163.00	70.0	695.2	54.0
82-04-28	1715	462	0	0	183.	150.0	45.00	23.7	209.9	14.0
82-05-25	1645	462	0.	0	274.	225.0	67.10	30.9	294.8	24.0
82-06-14	1715	462	0	0	366.	300.0	87.50	40.5	385.2	36.0
82-07-12	1615	462	0.	.0	372.	305.0	86.50	41.2	385.6	31.0
82-08-09	1200	462	0.	0	335	275.0	89.30	48.0	420.6	58.0
82-09-20	1000	462	0.	.0	360.	295.0	87.80	48.2	417.7	58.0
82-10-25	1540	462	0.	.0	408.	335.0	97.00	56.0	472.8	95.0
82-11-24	1130	462	0	.0	488.	400.0	129.00	68.0	602.1	67.0
82-12-09	1720	462	0.	.0	518.	425.0	109.00	67.0	548.0	62.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-25	1550	462	15.0 03R	52.0 06R	.41 05R	300. 06R	29.0 05R	1116.	--	.003 04W
82-02-22	1620	462	13.0	42.0	.24	300.	34.0	--	--	.002
82-03-22	1515	462	12.0	26.0	.27	252.	32.0	909.	--	005
82-04-28	1715	462	8.3	10.0	.14	82.	9.2	282.	--	003
82-05-25	1645	462	8.9	12.0	.14	96.	7.2	381.	--	.002
82-06-14	1715	462	10.0	20.0	.16	146.	11.0	531.	--	.004
82-07-12	1615	462	9.8	12.0	.18	118.	15.0	497.	--	.004
82-08-09	1200	462	11.0	46.0	.23	192.	16.0	625.	--	.004
82-09-20	1000	462	11.0	29.0	.22	190.	12.0	613.	--	.005
82-10-25	1540	462	13.0	67.0	.47	264.	13.0	806.	--	.005
82-11-24	1130	462	12.0	28.0	.29	300.	12.0	856.	--	.003
82-12-09	1720	462	12.0	22.0	.20	266.	16.0	809.	--	.001

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05MB0002 LAT. 51D 31M 59S LONG. 101D 53M 20S
ASSINIBOINE RIVER AT HWY 8 BRIDGE BELOW KAMSACK, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-25	1550	462	.140 06R	.065 03V	.075	.05 10V	1.20 51V	1.10 51R	07 02R	1.17
82-02-22	1620	462	.075	.032	.043	.05	1.10	1.10	.08	1.18
82-03-22	1515	462	.060	.020	.040	.10	1.20	1.00	.08	1.08
82-04-28	1715	462	.260	.120	.140	.06	.70	.69	.42	1.11
82-05-25	1645	462	.120	.062	.058	L.01	.56	.57	.17	.74
82-06-14	1715	462	.170	.078	.092	L.01	.57	.59	.22	.81
82-07-12	1615	462	.120	.067	.050	L.01	.74	.78	.20	.98
82-08-09	1200	462	.390	.330	.060	L.01	78	.76	.19	.95
82-09-20	1000	462	.160	110	.050	L.01	.60	.61	.13	74
82-10-25	1540	462	--	.680	--	.07	2.00	2.10	.09	2.20
82-11-24	1130	462	.081	.059	.022	.04	.56	.54	.08	.62
82-12-09	1720	462	.060	.043	.017	.04	.58	.56	.05	.61

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-25	1550	462	L.1 06W	.049 56V	19.0 04R	.53 02R	19.5	.19 05V	.0014 04V	L.0005 02V
82-02-22	1620	462	7	.016	18.0	.35	18.4	.18 05D	.0012	L.0005
82-03-22	1515	462	1.0	.011	14.0	.50	14.5	15 05D	.0012	L.0005
82-04-28	1715	462	.1	085	12.0	2.50	14.5	.18 05D	0018	L.0005
82-05-25	1645	462	L.1	.040	12.0	1.50	13.5	13 05D	.0070	L.0005
82-06-14	1715	462	L.1	.048	14.0	1.80	15.8	14 05D	.0042	L.0005
82-07-12	1615	462	L 1	.037	14.0	1.30	15.3	15 05D	.0050	L.0005
82-08-09	1200	462	L 1	.300	15.0	1.10	16.1	20 05D	0110	L.0005
82-09-20	1000	462	L 1	070	13.0	.79	13.8	.18 05D	0054	L.0005
82-10-25	1540	462	2.0	430	16.0	60	16.6	26 05D	0059	.0005
82-11-24	1130	462	L 1	028	12.0	.51	12.5	17 05D	0022	L.0005
82-12-09	1720	462	2	027	12.0	40	12.4	.19 05D	0018	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-25	1550	462	L.06 02W	--	--	1.10 041	-	.07 041	L 02 11W	L 001 20W
82-02-22	1620	462	06	-		3.10	--	.04	L 02	L.001
82-03-22	1515	462	06	--	--	1.80	--	.04	L 02	L.001
82-04-28	1715	462	1:	--	--	.05	--	18	L.02	001
82-05-25	1645	462	.14	--	-	.08	-	L.04	L.02	001
82-06-14	1715	462	10	--	--	.17	-	L.04	L.02	.002
82-07-12	1615	462	.06	--	--	01	-	L.04	L.02	.005
82-08-09	1200	462	.12	-	-	04	--	L.04	L.02	004
82-09-20	1000	462	.02	--	-	01	--	L.04	L.02	.002
82-10-25	1540	462	.18	--		.17	--	L.04	03	001
82-11-24	1130	462	.06	--	--	06	--	.04	07	001
82-12-09	1720	462	.11	--	--	10	--	L.04	L.02	001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-25	1550	462	L.015 02W	.002 20W	.005 20W	.001 20W	.009 20W	L.001 20W	.10 20W	L.004 20W
82-02-22	1620	462	L.015	002	005	.002	.007	L.001	.13	L.004
82-03-22	1515	462	L.015	L.002	005	.001	001	L 001	.13	L.004
82-04-28	1715	462	L.015	L.002	L.002	.008	L.001	L 001	L.05	L 004
82-05-25	1645	462	L.015	L.002	L.002	005	.001	L.001	L.05	L.004
82-06-14	1715	462	L.015	L.002	L.002	.003	.006	L.001	.05	L.004
82-07-12	1615	462	L.015	L.002	.005	.002	006	L.001	.07	L.004
82-08-09	1200	462	L.015	L.002	L.002	.002	006	L 001	08	L.004
82-09-20	1000	462	L.015	L 002	.004	.002	.002	L.001	.05	L.004
82-10-25	1540	462	L.015	L.002	.002	.002	.001	L.001	.08	L.004
82-11-24	1130	462	L.015	L 002	002	.002	.002	L.001	.06	L.004
82-12-09	1720	462	L.015	L.002	.002	.001	.003	L.001	.05	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05MD0002 LAT. 51D 31M 59S LONG. 101D 53M 20S
ASSINIBOINE RIVER AT HWY 8 BRIDGE BELOW KAMSACK, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P,P-TDE UG/L
82-01-25	1550	462	.001 35W	L1.0 00W	L1.0 10W	L.001 11R	.006 75R	L.001 70R	L.001 30R	L.002 10R
82-02-22	1620	462	.006	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-03-22	1515	462	.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-04-28	1715	462	.003	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-05-25	1645	462	.002	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-06-14	1715	462	.002	L1.0	L1.0	L.001	.002	L.001	L.001	L.002
82-07-12	1615	462	.002	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-08-09	1200	462	.003	L1.0	L1.0	L.001	.005	L.001	L.001	L.002
82-09-20	1000	462	.003	L1.0	L1.0	L.001	.007	L.001	L.001	L.002
82-10-25	1540	462	.004	--	--	L.001	.008	L.001	L.001	L.002
82-11-24	1130	462	.002	--	--	L.001	.008	.003	L.001	L.002
82-12-09	1720	462	.002	--	--	L.001	.004	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P,P-DDE UG/L	18005L O,P-DDT UG/L	18000L P,P-DDT UG/L	18030L P,P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-25	1550	462	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-02-22	1620	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-22	1515	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-28	1715	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-25	1645	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-14	1715	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-12	1615	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-09	1200	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-20	1000	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-25	1540	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-24	1130	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-09	1720	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2,4-D UG/L	18550P 2,4-DB UG/L
82-01-25	1550	462	L.002 45R	L.0020 50R	L.001 25R	L.003 60R	L.002 65R	L.2 20W	.030 00W	L.009 50W
82-02-22	1620	462	L.002	L.0020	L.001	L.003	L.002	L.2	.008	L.009
82-03-22	1515	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-28	1715	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-25	1645	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-14	1715	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-12	1615	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-09	1200	462	L.002	L.0020	L.001	L.003	L.002	L.2	.300	L.009
82-09-20	1000	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-25	1540	462	L.002	L.0020	L.001	L.003	L.002	L.2	.040	L.009
82-11-24	1130	462	L.002	L.0020	L.001	L.003	L.002	L.2	.030	L.009
82-12-09	1720	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2,4,5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-25	1550	462	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-02-22	1620	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-22	1515	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-28	1715	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-25	1645	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-14	1715	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-12	1615	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-09	1200	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-20	1000	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-25	1540	462	L.004	L.002	L.004		L.002	L.002	L.005	L.002
82-11-24	1130	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-12-09	1720	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05NA0002 LAT. 49D 9M 0S LONG. 103D 30M 0S
LONG CREEK SOUTH OF TORQUAY. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-04-25	1730	3	9.5	21.6	340.	328	7.6	7.5	--	38.0
82-05-13	0930	3	9.0	17.3	966.	878	7.5	7.9	--	15.0
82-06-21	1510	3	19.0	21.3	1419.	1350.	8.1	8.0	--	2.0
82-07-19	1615	3	22.0	24.0	1597.	1500.	7.9	8.0	--	.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO- PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-04-25	1730	3	60.	36.	--	.017	70.	24.	--	9.8
82-05-13	0930	3	60.	13.	--	.020	--	4	--	10.8
82-06-21	1510	3	30	3.	--	.007	140.	140.	--	8.6
82-07-19	1615	3	40.	3.	--	.004	20.	14.	--	6.1

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-04-25	1730	3	0.	.0	90.	74.0	26.30	11.5	113.0	22.0
82-05-13	0930	3	0.	.0	195.	160.0	58.90	32.7	281.7	95.0
82-06-21	1510	3	0.	.0	317.	260.0	83.10	56.0	438.1	160.0
82-07-19	1615	3	0.	.0	299.	245.0	69.20	68.0	452.8	182.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-04-25	1730	3	7.2	4.1	.09	78	10.0	204	--	--
82-05-13	0930	3	9.2	14.0	.09	312	14.0	632	--	--
82-06-21	1510	3	10.0	22.0	.18	510	6.0	1003	--	--
82-07-19	1615	3	10.0	23.0	.16	560	7.3	1067.	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-04-25	1730	3	.230	.130	.100	.26	.71	.78	.34	1.12
82-05-13	0930	3	.460	.160	.300	1.01	.60	.55	.28	.83
82-06-21	1510	3	.150	.120	.030	.01	.58	.59	.09	.68
82-07-19	1615	3	.280	.270	L .006	.01	.78	.77	.05	.82

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-04-25	1730	3	L .1	--	7.7	1.90	9.6	.17 05D	.0023	.0005
82-05-13	0930	3	L .1	--	11.0	1.50	12.5	.15 05D	.0021	.0007
82-06-21	1510	3	L .1	--	12.0	.53	12.5	[illegible] 05D	.0028	L .0005
82-07-19	1615	3	.2	--	15.0	.40	15.4	[illegible] 05D	.0042	L .0005

STATION - 00SA05NA0002 LAT. 49D 9M 0S LONG. 103D 30M 0S
LONG CREEK SOUTH OF TORQUAY, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-04-25	1730	3	--	--	--	.02	--	.50	L.02	--
82-05-13	0930	3	--	--	--	.02	--	.05	L.02	--
82-06-21	1510	3	--	--	--	.32	--	.10	L.02	--
82-07-19	1615	3	--	--	--	.33	--	.09	L.02	--

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05ND0001 LAT. 49D 10M 14S LONG. 102D 0M 38S
SOURIS RIVER NEAR GLEN EWEN. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-04-25	1415	140	8.0	22.3	443.	433.	7.6	7.7	--	39.0
82-05-12	1245	140	7.5	18.7	373.	362.	7.8	7.9	--	150.0
82-06-21	1730	140	20.0	19.3	1069.	962.	8.0	8.1	--	4.4
82-07-19	1930	140	24.0	23.7	933.	872.	8.2	8.3	--	5.3
82-08-23	1630	140	19.0	22.4	1164.	1080.	8.0	8.1	--	6.1
82-09-15	1230	140	11.0	15.2 61R	1155.	1180. 41R	8.0	8.2 01R	--	7.6 73R
82-10-19	1145	140	7.0	12.2	1218.	1170.	8.2	8.2	6.1	4.2
82-12-01	1030	140	.5	20.8	1567	1520.	8.0	8.0	5.2	3.5
82-12-14	1515	140	.0	12.2	1660.	1590.	8.2	8.0	5.0	3.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-04-25	1415	140	50.	76	-	.013	20.	14.	--	9.5
82-05-12	1245	140	70.	210.	--	.010	30.	20.	--	10.7
82-06-21	1730	140	40.	5	--	.005	70.	54.	--	8.6
82-07-19	1930	140	30.	7	--	.004	144.	90.	--	6.9
82-08-23	1630	140	30.	14	-	.010	L2	L2	--	6.8
82-09-15	1230	140	30. 21R	9 01R	-	.020 171	16. 02U	10. 12U	--	9.5
82-10-19	1145	140	20.	7	-	.005	40.	12	--	9.6
82-12-01	1030	140	30.	4	--	.004	20.	20.	-	13.9
82-12-14	1515	140	30.	2	-	.005	--	--	--	12.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-04-25	1415	140	0	0	111	91.0	26.50	12.2	116.4	46.0
82-05-12	1245	140	0	0	128.	105.0	27.90	11.8	118.3	28.0
82-06-21	1730	140	0	0	335	275.0	66.60	34.3	307.5	110.0
82-07-19	1930	140	0	0	323	265.0	52.10	25.6	235.5	114.0
82-08-23	1630	140	0	0	384	315.0	69.00	35.0	316.4	153.0
82-09-15	1230	140	0	0 51R	439	360.0 01R	80.20 03R	40.1 02R	365.4	175.0 03R
82-10-19	1145	140	0	0	421.	345.0	71.40	39.6	341.3	170.0
82-12-01	1030	140	0	0	500	410.0	57.80	42.8	320.5	268.0
82-12-14	1515	140	0	0	549	450.0	56.20	46.7	332.6	275.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-04-25	1415	140	8.0	13.0	.21	98	5.4	264	--	.005
82-05-12	1245	140	7.9	6.8	.14	64.	15.0	224.	--	.008
82-06-21	1730	140	10.0	41.0	.20	228.	7.8	663	--	.003
82-07-19	1930	140	10.0	26.0	.26	190	6.1	583	--	.004
82-08-23	1630	140	9.9	59.0	.23	216	11.0	742	--	.003
82-09-15	1230	140	9.9 03R	65.0 06R	.23 05R	246 06R	11.0 05R	843.	--	.004 04H
82-10-19	1145	140	9.0	61.0	.20	236.	6.1	800.	--	.002
82-12-01	1030	140	12.0	50.0	.36	440.	3.9	1121	--	.002
82-12-14	1515	140	11.0	62.0	.26	402	5.3	1128.	--	.003

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA05ND0001 LAT. 49D 10M 14S LONG. 102D 0M 38S
SOURIS RIVER NEAR GLEN EWEN. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-04-25	1415	140	.290	.120	.170	.34	.83	.82	.47	1.29
82-05-12	1245	140	.360	.140	.220	.42	.87	.91	.51	1.42
82-06-21	1730	140	.100	.071	.029	L.01	.53	.55	.13	.68
82-07-19	1930	140	.130	.100	.030	.01	.57	.57	.09	.66
82-08-23	1630	140	.150	.090	.060	L.01	.55	.55	.26	.81
82-09-15	1230	140	.130 06R	.047 03V	.080 01R	L.01 10V	.46 51V	.50 51R	.26 02R	--
82-10-19	1145	140	--	--	--	L.01	.51	.51	.08	.59
82-12-01	1030	140	.032	--	-	L.01	.62	.61	.08	.69
82-12-14	1515	140	.042	.029	.013	L.01	.58	.58	.04	.62

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-04-25	1415	140	.3	--	7.9	3.50	11.4	.43 05D	.002	.0010
82-05-12	1245	140	L.1	--	8.5	3.50	12.0	.20 05D	.0038	.0005
82-06-21	1730	140	L.1	--	11.0	.79	11.8	.35 05D	.0027	L.0005
82-07-19	1930	140	L.1	--	9.8	.60	10.4	.40 05D	.0039	.0005
82-08-23	1630	140	L.1	--	11.0	1.60	12.6	.48 05D	.0064	L.0005
82-09-15	1230	140	L.1 08H	--	9.9 04R	1.60 02R	11.5	.43 05V	.0033 04V	L.0005 07V
82-10-19	1145	140	L.1	--	9.2	.52	9.7	.37 05D	.0021	L.0005
82-12-01	1030	140	L.1	-	13.0	.53	13.5	.53 05D	.0013	L.0005
82-12-14	1515	140	L.1	--	15.0	.38	15.4	.57 05D	.0011	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-04-25	1415	140	--	--	--	.01	--	.09	5.00	.008
82-05-12	1245	140	-	-	-	.03	--	.04	L.02	.031
82-06-21	1730	140	--	--	-	.14	--	.04	L.02	.003
82-07-19	1930	140	--	--	--	.03	--	L.04	L.02	.004
82-08-23	1630	140	--	-	-	.34	--	L.04	L.02	.005
82-09-15	1230	140	--	--	-	.11 04T	--	L.04 04T	.02 11H	.003 20H
82-10-19	1145	140	--	--	-	.07	--	.08	.04	L.001
82-12-01	1030	140	--	-	--	.05	-	.07	.07	L.001
82-12-14	1515	140	--	--	-	.08	--	.06	.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-04-25	1415	140	--	L.002	.005	.012	.007	L.001	.10	.005
82-05-12	1245	140	-	.004	.014	.007	.028	L.001	.12	L.004
82-06-21	1730	140	--	L.002	.002	.003	.002	L.001	.09	L.004
82-07-19	1930	140	--	L.002	.006	.003	.013	L.001	.08	L.004
82-08-23	1630	140	-	L.002	.006	.003	.008	L.001	.12	L.004
82-09-15	1230	140	--	L.002 20H	L.002 20H	.001 20H	.004 20H	L.001 20H	.11 20H	L.004 20H
82-10-19	1145	140	--	L.002	L.002	.002	L.001	L.001	.06	L.004
82-12-01	1030	140	--	L.002	.005	.002	.005	L.001	.07	L.004
82-12-14	1515	140	--	L.002	.004	.001	L.001	L.001	.09	L.004

STATION - 00SA05ND0001 LAT 49D 10M 14S LONG. 102D 0M 38S
SOURIS RIVER NEAR GLEN EWEN. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-04-25	1415	140	.002	--	--	L.001	L.001	L.001	L.001	L.002
82-05-12	1245	140	.001	--	--	L.001	.006	L.001	L.001	L.002
82-06-21	1730	140	.002	--	--	L.001	.004	.001	L.001	L.002
82-07-19	1930	140	.001	--	--	L.001	.010	L.001	L.001	L.002
82-08-23	1630	140	.003	--	--	L.001	.005	L.001	L.001	L.002
82-09-15	1230	140	.003 35W	--	--	L.001 11R	.006 75R	L.001 70R	L.001 30R	L.002 10R
82-10-19	1145	140	--	--	--	L.001	.008	L.001	L.001	L.002
82-12-01	1030	140	.003	--	--	L.001	.009	.001	L.001	L.002
82-12-14	1515	140	.004	--	--	L.001	.006	.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-04-25	1415	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-12	1245	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-21	1730	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-19	1930	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-23	1630	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-15	1230	140	L.001 20R	L.001 05W	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-10-19	1145	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-01	1030	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-14	1515	140	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-04-25	1415	140	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-05-12	1245	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-21	1730	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-19	1930	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-23	1630	140	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-09-15	1230	140	L.002 45R	L.0020 50R	L.001 25W	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-10-19	1145	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-01	1030	140	L.002	L.0020	L.001	L.003	L.002	L.2	.050	L.009
82-12-14	1515	140	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-04-25	1415	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-12	1245	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-21	1730	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-19	1930	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-23	1630	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-15	1230	140	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-10-19	1145	140	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-12-01	1030	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-14	1515	140	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06AG0004 BEAVER RIVER ABOVE BEAUVAL SASKATCHEWAN LAT. 55D 7M 59S LONG. 107D 36M 15S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-16	1345	1	.5	20.6	565.	554.	7.4	7.3	--	5.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-02-16	1345	1	40	4.	--	--	--	--	--	1.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-16	1345	1	0.	.0	347	285.0	62.40	26.0	262.9	25.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-16	1345	1	4.0	7.8	15	15.	14.0	325.	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-16	1345	1	.065	.011 031	.054	.04 101	--	.92	.08	1.00

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-16	1345	1		--	10.0	.55	10.6	.23	L.0005 04L	L.0005 02L

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-16	1345	1	--	L.004	1.40	--	.66	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-16	1345	1	L.015	L.002	L.002	.002	.003	L.001	.09	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06AG0004 LAT. 55D 7M 59S LONG. 107D 36M 15S
BEAVER RIVER ABOVE BEAUVAL SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-16	1345	1	--	--	--	70.0

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06BB0004 LAT. 55D 55M 30S LONG. 107D 43M 40S
CHURCHILL RIVER NEAR PATUANAK. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-16	1230	1	.5	20.4	262.	268.	8.1	7.9	--	.8
82-06-08	1700	1	8.0	21.3	--	236.	7.2	7.9	--	1.2
82-08-10	1715	1	17.0	25.9	220.	231.	8.2	8.6	--	1.9
82-10-05	0945	1	8.0	19.9	--	234.	8.2	8.2	--	1.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103I FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-02-16	1230	1	10.	1.	--	--	--	--	--	12.2
82-06-08	1700	1	10.	2.	--	--	--	--	--	12.4
82-08-10	1715	1	20.	2.	--	--	--	--	--	10.8
82-10-05	0945	1	10.	13.	--	--	--	--	--	11.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-16	1230	1	0.	.0	152.	125.0	29.20	11.8	121.5	12.0
82-06-08	1700	1	0.	.0	140.	115.0	26.80	10.6	110.6	12.0
82-08-10	1715	1	2.	1.4	137.	115.0	26.00	10.4	107.7	11.0
82-10-05	0945	1	0.	.0	146.	120.0	26.60	10.4	109.2	13.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-16	1230	1	2.4	5.7	.08	6.	6.0	148.	--	.002
82-06-08	1700	1	2.1	5.7	.11	5.	4.9	136.	--	.002
82-08-10	1715	1	2.0	6.0	.11	4.	3.2	132.	--	.003
82-10-05	0945	1	2.3	6.0	.13	4.	.6	135.	--	.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603I NITROGEN TOTAL (CALCD.) N MG/L
82-02-16	1230	1	.021	.016 03L	.005	.26 10L	--	.69	L.01	Q.70
82-06-08	1700	1	.038	.010 03L	.028	.09 10L	--	.43	.18	.61
82-08-10	1715	1	.022	.007 03L	.015	L.01 10L	--	.40	.15	.55
82-10-05	0945	1	.041	.014 03L	.027	.05 10L	--	.40	.15	.55

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-16	1230	1	--	--	9.6	.26	9.9	.11	.0010 04L	L.0005 02L
82-06-08	1700	1	--	--	8.4	.90	9.3	.10	L.0005 04L	L.0005 02L
82-08-10	1715	1	--	--	9.1	.79	9.9	.06	L.0005 04L	L.0005 02L
82-10-05	0945	1	--	--	9.2	.93	10.1	.07 05D	.0005 04L	L.0005 02L

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06BB0004 LAT. 55D 55M 30S LONG. 107D 43M 40S
CHURCHILL RIVER NEAR PATUANAK, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-16	1230	1	--	L.004	.01	--	.05	--	--	L.001
82-06-08	1700	1	--	L.004	.07	--	.05	--	--	L.001
82-08-10	1715	1	--	L.004	.04	--	.04	--	--	L.001
82-10-05	0945	1	--	L.004	.12	--	.05	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-16	1230	1	L.015	L.002	L.002	.002	.004	L.001	L.05	L.004
82-06-08	1700	1	L.015	L.002	L.002	L.001	.005	L.001	.05	L.004
82-08-10	1715	1	L.015	L.002	L.002	L.001	.004	L.001	.05	L.004
82-10-05	0945	1	--	L.002	--	L.001	.015	L.001	L.05	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-02-16	1230	1	.002	--	--	L.001	.003	L.001	L.001	L.002
82-06-08	1700	1	.001	-	-	L.001	.004	L.001	L.001	L.002
82-08-10	1715	1	.001	--	--	L.001	.004	L.001	L.001	L.002
82-10-05	0945	1	.002	--	--	L.001	.005	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-02-16	1230	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-08	1700	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-10	1715	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-05	0945	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-02-16	1230	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-08	1700	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-10	1715	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-05	0945	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-02-16	1230	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-08	1700	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-10	1715	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-05	0945	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06BB0004 LAT. 55D 55M 30S LONG. 107D 43M 40S
CHURCHILL RIVER NEAR PATUANAK. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-06-08	1700	1	--	--	--	29.0
82-08-10	1715	1	--	--	--	27.0
82-10-05	0945	1	--	--	--	37.0

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06CD0001 LAT. 55D 38M 26S LONG. 104D 44M 3S
CHURCHILL RIVER AT OTTER RAPIDS. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-15	1130	1	.5	20.4	144.	154.	8.0	7.6	--	1.0
82-06-08	0900	1	10.0	21.3	--	140.	--	7.8	--	1.4
82-08-10	0915	1	17.0	23.9	124.	132.	7.3	8.0	--	1.6
82-10-05	1745	1	8.0	20.9	122.	127.	7.4	7.8	--	1.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-02-15	1130	1	20.	2.	--	--	--	--	--	12.4
82-06-08	0900	1	10.	3.	--	--	--	--	--	11.1
82-08-10	0915	1	30.	3.	--	--	--	--	--	8.6
82-10-05	1745	1	10.	3	--	--	--	--	--	10.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-15	1130	1	0	.0	93.	76.0	18.00	6.8	72.9	6.4
82-06-08	0900	1	0.	0	84.	69.0	16.10	6.5	67.0	6.3
82-08-10	0915	1	0.	0	78.	64.0	14.30	5.9	60.0	5.8
82-10-05	1745	1	0.	.0	74	61.0	14.00	5.8	58.8	5.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-15	1130	1	1.6	2.7	09	3	6.2	90	--	L.001
82-06-08	0900	1	1.5	2.5	10	3.	4.8	82.	--	001
82-08-10	0915	1	1.4	2.3	10	3	2.8	74	--	003
82-10-05	1745	1	1.5	2.4	08	3.	4	69		001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-15	1130	1	.019	.009 03L	.010	.08 10L	--	.43	09	.52
82-06-08	0900	1	.023	.008 03L	.015	L.01 10L	--	30	10	40
82-08-10	0915	1	.021	.010 03L	011	L.01 10L	--	.30	12	42
82-10-05	1745	1	.022	.006 03L	.016	L.01 10L	--	.26	11	.37

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-15	1130	1	--	--	8.0	.68	8.7	.08	L.0005 04L	L.0005 02L
82-06-08	0900	1	--	--	7.6	64	8.2	07	L.0005 04L	L.0005 02L
82-08-10	0915	1	--	--	7.9	69	8.6	04	L.0005 04L	L.0005 02L
82-10-05	1745	1	--	--	8.0	61	8.6	04	L.0005 04L	L.0005 02L

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06CD0001 LAT. 55D 38M 26S LONG. 104D 44M 3S
CHURCHILL RIVER AT OTTER RAPIDS, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-15	1130	1	--	L.004	.04	--	.05	--	--	L.001
82-06-08	0900	1	--	L.004	.07	--	.08	--	--	L.001
82-08-10	0915	1	--	L.004	.07	--	.06	--	--	L.001
82-10-05	1745	1	--	L.004	.05	--	.07	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-15	1130	1	L.015	L.002	L.002	.002	.008	L.001	L.05	L.004
82-06-08	0900	1	L.015	L.002	L.002	.001	.008	L.001	L.05	L.004
82-08-10	0915	1	L.015	L.002	--	.001	--	L.001	L.05	L.004
82-10-05	1745	1	L.015	L.002	L.002	.001	L.001	L.001	L.05	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-15	1130	1	--	--	--	19.0
82-06-08	0900	1	--	-	--	16.0
82-08-10	0915	1	--	--	--	16.0
82-10-05	1745	1	--	--	--	14.0

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06DA0001 — LAT. 57D 35M 20S LONG. 104D 12M 10S
GEIKIE RIVER BELOW JUNCTION OF WHEELER RIVER, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-15	1330	1	.5	20.3	27.	29.	--	6.5	--	1.0
82-06-08	1045	1	8.0	22.1	24.	23	--	7.1	--	.8
82-08-10	1100	1	16.0	18.9	22	22	6.8	7.1	--	1.3
82-10-05	1515	1	5.0	19.6	20.	23.	7.2	7.1	--	.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-02-15	1330	1	10	2.	--	--	--	-	--	10.7
82-06-08	1045	1	20	2.	--	--	--	-	-	11.1
82-08-10	1100	1	30	3	--	--	--	--	--	8.9
82-10-05	1515	1	10	2	--	--	-	--	--	11.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-15	1330	1	0	0	12	10.0	2.20	.8	8.8	1.3
82-06-08	1045	1	0	0	9.	7.5	1.80	1.0	8.6	1.5
82-08-10	1100	1	0	0	10	8.3	2.20	.9	9.2	1.2
82-10-05	1515	1	0.	0	9.	7.0	2.00	.7	7.9	1.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-15	1330	1	.7	.4	L .05	1	9.6	22.	--	L .001
82-06-08	1045	1	.6	.3	L .05	2.	5.6	17	--	.001
82-08-10	1100	1	.5	.4	.06	1	5.5	17	-	.002
82-10-05	1515	1	.6	.4	L .05	1	6.2	17	--	.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-15	1330	1	.005	.003 03L	.002	.08 10L	--	.21	L .01	.22
82-06-08	1045	1	.010	.009 03L	.001	L .01 10L	--	.16	.06	.22
82-08-10	1100	1	.015	.005 03L	.010	L .01 10L	-	.18	.10	.28
82-10-05	1515	1	.016	.004 03L	.012	L .01 10L	-	.15	.07	.22

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-15	1330	1	-	--	3.3	.26	3.6	.05	L .0005 04L	L .0005 02L
82-06-08	1045	1	--	--	4.1	.47	4.6	.06	L .0005 04L	L .0005 02L
82-08-10	1100	1	-	--	5.2	.65	5.9	.05	L .0005 04L	L .0005 02L
82-10-05	1515	1	--	--	3.9	.49	4.4	.07 05D	L .0005	L .0005

STATION - 00SA06DA0001 LAT. 57D 35M 20S LONG. 104D 12M 10S
GEIKIE RIVER BELOW JUNCTION OF WHEELER RIVER, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-15	1330	1	--	L.004	.01	--	.10	--	--	L.001
82-06-08	1045	1	--	L.004	.02	--	.16	--	--	L.001
82-08-10	1100	1	--	L.004	.04	--	.15	--	--	L.001
82-10-05	1515	1	--	L.004	.04	--	.10	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-15	1330	1	L.015	L.002	L.002	003	.007	L.001	L.05	L.004
82-06-08	1045	1	L.015	L.002	L.002	001	009	L.001	L.05	L.004
82-08-10	1100	1	L.015	L.002	L.002	L.001	.008	L.001	L.05	L.004
82-10-05	1515	1	L.015	L.002	--	L.001	--	L.001	L.05	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-15	1330	1	--	--	-	2.8
82-06-08	1045	1	--	--	-	1.9
82-08-10	1100	1	--	--	--	1.8
82-10-05	1515	1	--	--	--	1.6

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA06EA0003 LAT. 55D 36M 29S LONG. 102D 11M 44S
CHURCHILL RIVER BELOW WASAWAKASIK LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-27	1200	462	.0	19.5	62.	61.	7.5	7.6	--	3.2
82-02-24	1140	462	.0	11.7	60.	65.	7.7	7.3	--	1.0
82-03-24	1020	462	.0	22.0	57.	59.	7.3	7.3	--	.8
82-06-16	0845	462	12.0	19.5	62.	72.	7.3	7.5	--	3.6
82-07-14	0915	462	17.0	17.4	137.	96.	7.3	7.6	--	5.0
82-08-11	0900	462	16.5	25.3	129.	115.	7.5	7.8	--	3.8
82-09-22	1015	462	10.5	21.1	115	110.	7.3	7.9	3.6	2.4
82-12-09	1020	462	0	19.0	--	71.	7.5	7.5	2.8	1.3

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-01-27	1200	462	20	1.	L1.	.003	10.	2.	--	15.6
82-02-24	1140	462	20.	2	1.	.001	L2	L2.	--	14.4
82-03-24	1020	462	10	1.	L1.	L.001	L2.	L2.	--	14.6
82-06-16	0845	462	20.	4	3.	.005	L2.	L2.	--	10.4
82-07-14	0915	462	20	9	7.	.008	L2.	L2.	--	8.1
82-08-11	0900	462	30	7	5.	.010	L2.	L2.	--	8.5
82-09-22	1015	462	20	4	3.	.010	L2	L2.	--	11.0
82-12-09	1020	462	20	2	L1.	L.001	--	--	--	14.3

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-27	1200	462	0	0	33	27.0	6.80	3.2	30.2	2.3
82-02-24	1140	462	0	0	32	26.0	6.80	2.1	25.6	2.5
82-03-24	1020	462	0	0	31	25.0	7.20	2.2	27.0	2.3
82-06-16	0845	462	0	0	39	32.0	8.90	3.2	35.4	3.0
82-07-14	0915	462	0	0	54	44.0	10.70	4.3	44.4	3.7
82-08-11	0900	462	0	0	65	53.0	12.20	5.4	52.7	4.9
82-09-22	1015	462	0	0	67	55.0	14.50	5.1	57.2	4.3
82-12-09	1020	462	0	0	37.	30.0	7.20	3.0	30.3	2.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-27	1200	462	9	9	15	2	1.6	34.	--	.001
82-02-24	1140	462	.8	.9	.10	2	2.0	33.	--	L.001
82-03-24	1020	462	8	1.1	.11	3	2.0	33	--	.003
82-06-16	0845	462	1.0	1.1	08	3	2.4	42.	-	.019
82-07-14	0915	462	1.5	1.6	09	3.	2.2	53	--	.002
82-08-11	0900	462	1.4	2.0	11	3.	2.0	63	--	.002
82-09-22	1015	462	1.3	1.6	08	4.	1.8	65.	--	.002
82-12-09	1020	462	9	.9	.08	3	1.1	36.	--	L.001

STATION - 00SA06EA0003 LAT. 55D 38M 29S LONG. 102D 11M 44S
CHURCHILL RIVER BELOW WASAWAKASIK LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-27	1200	462	.028	.013	.015	.03	.22	.25	L.01	0.26
82-02-24	1140	462	.033	.020	.013	.06	.20	.24	L.01	0.25
82-03-24	1020	462	.008	.005	.003	.07	.23	.23	L.01	0.24
82-06-16	0845	462	.016	.006	.010	L.01	.22	.22	.09	.31
82-07-14	0915	462	.023	.009	.014	L.01	.33	.30	.09	.39
82-08-11	0900	462	.018	.006	.012	L.01	.31	.30	.09	.39
82-09-22	1015	462	.018	L.003	.016	L.01	.29	.27	.09	.36
82-12-09	1020	462	.013	.007	.006	.01	.22	.22	L.01	.22

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-27	1200	462	L.1	.006	5.2	.24	5.4	.02 05D	L.0005	L.0005
82-02-24	1140	462	L.1	L.003	4.7	.10	4.8	.03 05D	L.0005	L.0005
82-03-24	1020	462	L.1	L.003	4.3	.17	4.5	.03 05D	L.0005	L.0005
82-06-16	0845	462	L.1	L.003	7.0	.46	7.5	.04 05D	L.0005	L.0005
82-07-14	0915	462	L.1	L.003	7.6	.58	8.2	.04 05D	L.0005	L.0005
82-08-11	0900	462	L.1	L.003	8.6	.61	9.2	.06 05D	L.0005	L.0005
82-09-22	1015	462	L.1	L.003	7.7	.51	8.2	.04 05D	L.0005	L.0005
82-12-09	1020	462	.1	.005	4.7	.21	4.9	.04 05D	L.0005	L.0005

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-27	1200	462	L.06	--	--	L.01	--	L.04	L.02	L.001
82-02-24	1140	462	L.06	--	--	L.01	--	L.04	L.02	L.001
82-03-24	1020	462	L.06	--	--	L.01	--	L.04	L.02	L.001
82-06-16	0845	462	.23	--	--	L.01	--	.04	L.02	L.001
82-07-14	0915	462	.10	--		L.01	--	L.04	L.02	.001
82-08-11	0900	462	.19	--	--	L.01	--	L.04	L.02	L.001
82-09-22	1015	462	.06	--		L.01	--	L.04	L.02	L.001
82-12-09	1020	462	.11	--	--	L.01	--	L.04	.02	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-27	1200	462	L.015	L.002	L.002	L.001	.011	L.001	L.05	L.004
82-02-24	1140	462	L.015	L.002	L.002	.003	.003	L.001	L.05	L.004
82-03-24	1020	462	L.015	L.002	L.002	L.001	.002	L.001	L.05	L.004
82-06-16	0845	462	L.015	L.002	L.002	L.001	.005	L.001	L.05	L.004
82-07-14	0915	462	L.015	L.002	L.002	.001	.012	L.001	L.05	L.004
82-08-11	0900	462	L.015	L.002	L.002	L.001	.006	L.001	L.05	L.004
82-09-22	1015	462	L.015	L.002	L.002	.001	.002	L.001	L.05	L.004
82-12-09	1020	462	L.015	L.002	L.002	L.001	.002	L.001	L.05	L.004

STATION - 00SA06EA0003 LAT. 55D 36M 29S LONG. 102D 11M 44S
CHURCHILL RIVER BELOW WASAWAKASIK LAKE. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-01-27	1200	462	.001	L1.0	L1.0	L.001	.005	L.001	L.001	L.002
82-02-24	1140	462	.001	L1.0	L1.0	L.001	.003	L.001	L.001	L.002
82-03-24	1020	462	.001	L1.0	L1.0	L.001	.007	L.001	L.001	L.002
82-06-16	0845	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-07-14	0915	462	.001	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-08-11	0900	462	.003	L1.0	L1.0	L.001	.007	.001	L.001	L.002
82-09-22	1015	462	.002	L1.0	L1.0	L.001	.004	L.001	L.001	L.002
82-12-09	1020	462	.002	--	--	L.001	L.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-01-27	1200	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-02-24	1140	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-24	1020	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-16	0845	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-14	0915	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-11	0900	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-22	1015	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-09	1020	462	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-01-27	1200	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-02-24	1140	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-24	1020	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-16	0845	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-14	0915	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-11	0900	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-22	1015	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-09	1020	462	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-01-27	1200	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-02-24	1140	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-24	1020	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-16	0845	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-14	0915	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-11	0900	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-22	1015	462	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-09	1020	462	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00SA07LC0001 LAT. 59D 8M 48S LONG. 105D 32M 20S
FOND DU LAC RIVER AT OUTLET OF BLACK LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-15	1600	1	.5	20.1	37.	41.	7.8	7.2	--	.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-02-15	1600	1	10.	L1.	--	--	--	--	--	16.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-15	1600	1	0.	.0	15.	12.0	4.00	1.4	15.8	1.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-15	1600	1	.8	2.4	L.05	2.	4.6	24.	-	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-15	1600	1	.006	.003 031	.003	.03 10L	--	.18	L.01	0.19

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-15	1600	1	--	-	3.8	.15	4.0	.05	L.0005 04L	L.0005 02L

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-15	1600	1	--	L.004	L.01	--	L.04	--	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-15	1600	1	L.015	L.002	L.002	.002	.003	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA07LC0001 LAT. 59D 8M 48S LONG. 105D 32M 20S
FOND DU LAC RIVER AT OUTLET OF BLACK LAKE, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-15	1600	1	--	--	--	3.1

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA07MA0001 LAT. 58D 19M 18S LONG. 109D 47M 8S
DOUGLAS RIVER APPROX. 16.1KM. BELOW CLUFF CREEK SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG.C.	02061L TEMP. WATER DEG.C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-16	1000	1	.5	20.4	237.	226.	7.9	7.1	--	.9
82-06-08	1605	1	10.0	21.6	--	127.	--	7.6	--	.7
82-08-10	1415	1	17.0	26.2	138.	144.	7.2	7.7	--	1.3
82-10-05	1215	1	7.0	20.2	--	184.	7.4	7.6	--	.6

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-02-16	1000	1	30	L1.	--	--	--	--	--	10.3
82-06-08	1605	1	40	1.	--	--	--	--	--	10.5
82-08-10	1415	1	40.	1.	--	--	--	--	--	9.2
82-10-05	1215	1	30	2. 01R	--	--	--	--	--	10.7

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-16	1000	1	0.	0	60.	49.0	21.10	10.5	95.9	5.1
82-06-08	1605	1	0.	0	46	38.0	12.20	6.7	58.1	3.2
82-08-10	1415	1	0	0	40.	33.0	13.60	7.4	64.4	3.5
82-10-05	1215	1	0.	0	48	39.0	14.70	7.5	67.6	3.3

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-16	1000	1	1.4	39.0	L.05	2	13.0	122.	--	L.001
82-06-08	1605	1	1.0	17.0	L.05	2	7.8	73.	--	.001
82-08-10	1415	1	.9	24.0	L.05	1	8.6	79	--	.002
82-10-05	1215	1	1.0	24.0	L.05	2	9.6	85.	--	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-16	1000	1	.009	.003 03L	.006	.08 10L	--	.20	L.01	0.21
82-06-08	1605	1	.007	.005 03L	.002	L.01 10L	--	.15	L.01	0.16
82-08-10	1415	1	.008	.003 03L	L.006	L.01 10L	--	.15	.05	.20
82-10-05	1215	1	.008 06R	L.003 03R	0.005	.01 10R	--	.13 51R	.03 02R	.16
	1215	1	--	--	L.006 01R	--	--	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-16	1000	1	--	--	3.1	.25	3.4	.11	L.0005 04L	L.0005 02L
82-06-08	1605	1	--	--	5.1	.30	5.4	.10	L.0005 04L	L.0005 02L
82-08-10	1415	1	--	--	4.9	.34	5.2	.09	L.0005 04L	L.0005 02L
82-10-05	1215	1	--	--	4.6 04R	.28 02R	4.9	.19	L.0005 04L	L.0005 02L

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA07MA0001 LAT 58D 19M 18S LONG. 109D 47M 8S
DOUGLAS RIVER APPROX. 16.1KM. BELOW CLUFF CREEK SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-16	1000	1	--	L.004	.02	--	.32	--	--	L.001
82-06-08	1605	1	--	L.004	.01	--	.20	--	--	L.001
82-08-10	1415	1	--	L.004	.01	--	.28	--	--	L.001
82-10-05	1215	1	--	L.004	.01 04W	--	.25 04W	--	--	L.001 20W

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-16	1000	1	L.015	L.002	L.002	.002	.004	L.001	L.05	L.004
82-06-08	1605	1	L.015	L.002	L.002	.002	.019	L.001	L.05	L.004
82-08-10	1415	1	L.015	L.002	L.002	L.001	-	L.001	L.05	L.004
82-10-05	1215	1	L.015 02W	L.002 20W	.003 20W	.001 20W	.007 20W	L.001 20W	L.05 20W	L.004 20W

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-16	1000	1	--	--	--	11.0
82-06-08	1605	1	--	--	--	9.3
82-08-10	1415	1	--	--	--	7.5

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 005A07MB0001 MCFARLANE RIVER AT OUTLET OF DAVY LAKE, SASKATCHEWAN

LAT. 58D 56M 58S LONG. 108D 10M 0S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-16	0900	1	. 5	20. 4	46.	47.	--	6. 6	--	. 8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-02-16	0900	1	20.	2.	--	--	--	--	--	15. 7

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-16	0900	1	0.	. 0	10.	8. 5	3. 50	1. 4	14. 5	2. 2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-16	0900	1	. 8	5. 9	L. 05	2	9. 8	31.	--	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-16	0900	1	. 009	. 003 031	. 006	. 04 101	-	. 22	L. 01	0. 23

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-16	0900	1	--	--	3. 3	. 21	3. 5	08	L. 0005 041	L. 0005 021

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-16	0900	1	--	--	L. 01	--	. 09	--	--	L. 001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-16	0900	1	--	L. 002	L. 002	. 003	006	L. 001	L. 05	L. 004

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AB0005 LAT. 49D 0M 10S LONG. 109D 25M 18S
BATTLE CREEK NEAR U.S. BOUNDARY SOUTHEAST OF CONSUL, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-05-04	1045	1	7.0	21.2	400.	377.	8.3	8.1	--	25.0
82-06-08	1110	1	14.0	22.7	475.	417	8.4	8.2	--	6.5
82-07-07	1020	1	17.5	24.1	510.	470	9.2	8.9	--	.8
82-08-04	1050	1	18.5	24.8	400.	385.	9.9	9.6	--	1.2
82-08-31	1045	1	16.0	22.7	750	680.	9.8	9.5	--	2.4
82-10-13	1045	1	7.0	17.6	690.	663.	8.7	8.4	--	2.9
82-11-02	1040	1	.5	18.1	580.	575.	8.8	8.4	--	4.6

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-05-04	1045	1	50.	18 01R	--	--	35 02U	16. 12U	--	9.3
82-06-08	1110	1	50.	10	--	--	78.	24	--	9.3
82-07-07	1020	1	20.	L1	--	--	--	--	--	--
82-08-04	1050	1	40.	2	--	--	40.	18.	--	8.2
82-08-31	1045	1	60	4	--	--	--	14	--	8.3
82-10-13	1045	1	20.	19.	-	--	L2	L2	--	10.5
82-11-02	1040	1	10.	5.			L2	L2	--	12.9

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-05-04	1045	1	0	0	146	120.0	33.20	14.8	143.8	25.0
82-06-08	1110	1	0	0	213	175.0	42.10	18.5	181.3	19.0
82-07-07	1020	1	28.	23.0	145	165.0	23.50	28.2	174.8	44.0
82-08-04	1050	1	37	31.0	89	135.0	14.90	22.4	129.4	37.0
82-08-31	1045	1	46.	38.0	133	185.0	19.80	33.3	186.5	104.0
82-10-13	1045	1	4.	3.5	272	230.0	42.30	35.9	253.4	64.0
82-11-02	1040	1	3.	2.8	280	235.0	45.00	28.8	230.9	40.0

STATION - 00SA11AB0005 LAT. 49D 0M 10S LONG. 109D 25M 18S
BATTLE CREEK NEAR U.S. BOUNDARY SOUTHEAST OF CONSUL, SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-05-04	1045	1	6.4	2.7	.09	70	4.6	229.	--	--
82-06-08	1110	1	4.9	2.1	.15	48.	14.0	254.	--	--
82-07-07	1020	1	4.5	3.2	.21	98.	3.6	304.	--	--
82-08-04	1050	1	3.7	2.3	.22	66.	6.5	234.	--	--
82-08-31	1045	1	7.6	7.6	.25	188.	4.6	476.	--	--
82-10-13	1045	1	6.0	5.3	.21	152.	1.0	445.	--	--
82-11-02	1040	1	4.3	4.0	.22	93.	6.1	362	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-05-04	1045	1	.079 06R	.056 03R	.023	L.01 10R	--	.40 51R	.13 02R	.53
82-06-08	1110	1	053	.019 03L	.034	L.01 10L	--	.44	.13	.57
82-07-07	1020	1	020	.008 03L	.012	L.01 10L	--	.40	L.01	.40
82-08-04	1050	1	030	012 03L	.018	L.01 10L	--	.58	.12	70
82-08-31	1045	1	.054	030 03L	.024	L.01 10L	--	.90	.16	1.10
82-10-13	1045	1	.015	009 03L	006	L.01 10L	--	.30	L.01	.30
82-11-02	1040	1	.022	007 03L	015	L.01 10L	-	.23	.05	.28

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-05-04	1045	1	--	--	7.7 04R	.87 02R	8.6	.11	.0029 04L	L.0005 02L
82-06-08	1110	1	--	-	8.6	81	9.4	.11	.0016 04L	L.0005 02L
82-07-07	1020	1	--	--	8.1	23	8.3	06 05D	.0031 04L	L.0005 02L
82-08-04	1050	1	--	--	9.2	.69	9.9	10	.0083 04L	L.0005 02L
82-08-31	1045	1	--	--	16.0	.97	17.0	12	.0088 04L	L.0005 02L
82-10-13	1045	1	--	-	5.6	28	5.9	.08	0009 04L	L.0005 02L
82-11-02	1040	1	--	--	5.1	30	5.4	.10	0012 04L	L.0005 02L

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AB0007 LAT. 49D 0M 24S LONG. 109D 43M 30S
LODGE CREEK NEAR WILLOW CREEK AT HWY 21. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-05-05	1030	1	7.0	22.8	370.	350.	7.8	7.5	--	87.0
82-06-09	1130	1	15.0	23.0	510.	448.	8.1	7.9	--	29.0
82-07-07	1440	1	22.0	24.1	670.	641.	9.3	9.1	--	.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101H OXYGEN DISSOLVED DO O2 MG/L
82-05-05	1030	1	80.	104. 01R	--	--	L2. 02U	L2. 12U	--	9.2
82-06-09	1130	1	50	31.	--	--	--	--	--	8.3
82-07-07	1440	1	20.	L1.	--	--	-	--	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-05-05	1030	1	0	0	93	76.0	26.10	10.9	110.1	29.0
82-06-09	1130	1	0	0	118	97.0	33.90	14.9	146.0	35.0
82-07-07	1440	1	19.	16.0	107	120.0	33.80	25.1	187.7	75.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-05-05	1030	1	5.8	2.6	08	88.	8.2	216	--	-
82-06-09	1130	1	5.7	3.0	13	122.	12.0	285	--	-
82-07-07	1440	1	6.5	4.8	19	218.	1.8	437	--	-

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AB0007 LAT. 49D 0M 24S LONG. 109D 43M 30S
LODGE CREEK NEAR WILLOW CREEK AT HWY 21. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-05-05	1030	1	.170 06R	.063 03R	.107	.02 10R	--	.36 51R	.45 02R	.81
82-06-09	1130	1	.120	.075 03L	.045	L.01 10L	--	.43	.18	.61
82-07-07	1440	1	.023	.016 03L	007	L.01 10L	--	.45	L.01	.45

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-05-05	1030	1	--	-	6.8 04R	2.90 02R	9.7	.13	.0020 04L	L.0005 02L
82-06-09	1130	1	--	--	8.0	.97	9.0	.13	.0015 04L	L.0005 02L
82-07-07	1440	1	--	-	9.5	.17	9.7	.08 05D	.0022 04L	L.0005 02L

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AC0002 LAT. 49D 0M 0S LONG. 107D 18M 10S
FRENCHMAN RIVER AT THE 49TH PARALLEL SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG.C.	02061L TEMP. WATER DEG.C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-03-29	1145	1	1.0	21.1	210.	205.	7.4	7.2	--	205.0
82-05-03	1130	1	14.5	20.4	375.	373.	7.8	7.8	--	140.0
82-06-07	1120	1	14.0	21.9	600.	527	8.1	8.0	--	74.0
82-07-06	1035	1	17.5	24.1	840.	713.	8.2	7.9	--	300.0
82-08-03	1055	1	21.0	24.7	1000.	915.	8.5	8.2	--	42.0
82-08-30	1045	1	18.0	22.7	900.	826.	8.6	8.4	--	22.0
82-10-12	1115	1	6.5	19.3	1000.	984.	8.7	8.5	--	5.6
82-11-01	1040	1	3.0	19.0	930.	980.	8.6	8.5	--	-

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-03-29	1145	1	200	386	--	--	--	--	--	11.6
82-05-03	1130	1	50	266	--	-	30.	30	--	8.9
82-06-07	1120	1	40	132.	--	--	--	236	--	8.7
82-07-06	1035	1	20	586	--	--	--	980	--	-
82-08-03	1055	1	20	66.	--	--	--	18	--	7.6
82-08-30	1045	1	20	36	--	--	50.	20	--	8.7
82-10-12	1115	1	20	9	--	--	2.	2.	--	11.2
82-11-01	1040	1	15	8	--	--	8.	6	--	12.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-03-29	1145	1	0	0	49	40.0	10.00	6.4	51.3	20.0
82-05-03	1130	1	0	0	122	100.0	23.80	13.7	115.8	23.0
82-06-07	1120	1	0	0	159.	130.0	32.70	18.8	159.1	54.0
82-07-06	1035	1	0	0	201	165.0	49.10	30.8	249.4	90.0
82-08-03	1055	1	0	0	280.	230.0	56.90	38.1	298.9	106.0
82-08-30	1045	1	5	4.4	251	215.0	48.00	33.2	256.5	106.0
82-10-12	1115	1	5	4.0	258	220.0	50.70	39.7	290.0	115.0
82-11-01	1040	1	0	0	265	217.6	47.20	36.2	266.9	109.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-03-29	1145	1	6.9	2.4	09	48	6.0	124	-	004
82-05-03	1130	1	6.0	2.3	09	76	7.4	212	--	003
82-06-07	1120	1	7.5	3.2	16	138	7.3	340	--	003
82-07-06	1035	1	9.0	7.1	26	292	7.9	585		003
82-08-03	1055	1	9.8	7.6	31	271	7.2	635		002
82-08-30	1045	1	10.0	5.9	28	226	7.0	565	-	002
82-10-12	1115	1	11.0	7.5	29	308	1.2	665	--	001
82-11-01	1040	1	9.2	6.9	38	270	4.2	613	--	002

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AC0002 LAT 49D 0M 0S LONG. 107D 18M 10S
FRENCHMAN RIVER AT THE 49TH PARALLEL SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-03-29	1145	1	.480	330 03L	.150	.20 10L	--	.79	1.00	1.79
82-05-03	1130	1	.260	.070 03L	190	.19 10L	--	60	61	1.21
82-06-07	1120	1	.190	084 03L	.106	.11 10L	--	.50	35	.85
82-07-06	1035	1	430	.062 03L	.370	.09 10L	--	42	1.60	2.00
82-08-03	1055	1	.130	.052 03L	080	L.01 10L	--	.41	27	.68
82-08-30	1045	1	.094	.051 03L	.043	L.01 10L	--	.50	.11	.61
82-10-12	1115	1	.033	.031 03L	L.006	L.01 10L	--	45	.06	51
82-11-01	1040	1	.066	.040 03L	.026	L.01 10L	--	.49	16	59

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-03-29	1145	1	--	--	12 0	6.40	18 4	18	0010 04L	L 0005 02L
82-05-03	1130	1	--	--	6 1	4.20	10 3	12	.0020 04L	L 0005 02L
82-06-07	1120	1	--	--	7 0	2.40	9 4	14	.0021 04L	L 0005 02L
82-07-06	1035	1	--	--	7 6	7 20	14 8	13	.0023 04L	L 0005 02L
82-08-03	1055	1	--	--	8 0	1 40	9 4	14	0033 04L	L 0005 02L
82-08-30	1045	1	--	--	8 7	.54	9 2	16	0030 04L	L 0005 02L
82-10-12	1115	1	--	--	8 5	.81	9 3	13	.0010 04L	L 0005 02L
82-11-01	1040	1			8 2	.58	8 8	14	0018 04L	L 0005 02L

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-03-29	1145	1	--	-	14	--	3 30	--	--	035
82-05-03	1130	1	-		18	--	2.60	--	--	022
82-06-07	1120	1	--	-	12	--	1 40		-	015
82-07-06	1035	1	--		34	--	2 80		-	051
82-08-03	1055	1			.12	-	.67		-	007
82-08-30	1045	1	--	-	08	-	45			004
82-10-12	1115	1		-	04		18		--	002
82-11-01	1040	1			07	-	21		-	L 001

DATE YMD/AMJ	TIME/ HEURE	SUB ID/ SOUS ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-03-29	1145	1	--	.005	014	016	048	L 001	11	007
82-05-03	1130	1	-	L 002	009	007	.027	L 001	08	L 004
82-06-07	1120	1	--	L 002	005	008	045	L 001	07	L 004
82-07-06	1035	1	-	008	025	018	043	L 001	19	013
82-08-03	1055	1	--	L 002	004	003	009	L 001	10	L 004
82-08-30	1045	1	-	L 002	007	003	010	L 001	08	L 004
82-10-12	1115	1	-	L 002	002	012	003	001	05	L 004
82-11-01	1040	1	-	L 002	009	001	001	L 001	L 05	L 004

STATION - 00SA11AC0002 LAT. 49D 0M 0S LONG. 107D 18M 10S
FRENCHMAN RIVER AT THE 49TH PARALLEL SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-03-29	1145	1	.005	--	--	L.001	L.001	L.001	L.001	L.002
82-05-03	1130	1	.002	--	--	L.001	L.001	L.001	L.001	L.002
82-06-07	1120	1	.001	--	--	L.001	.006	.001	L.001	L.002
82-07-06	1035	1	.001	--	--	L.001	.010	.003	L.001	L.002
82-08-03	1055	1	.002	--	--	L.001	.020	L.001	L.001	L.002
82-08-30	1045	1	.008	--	--	L.001	.007	L.001	L.001	L.002
82-10-12	1115	1	.002	--	--	L.001	.010	L.001	L.001	L.002
82-11-01	1040	1	.002	--	--	L.001	L.001	.004	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-03-29	1145	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-03	1130	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-07	1120	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-06	1035	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-03	1055	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-30	1045	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-12	1115	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-11-01	1040	1	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-03-29	1145	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-03	1130	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-07	1120	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-06	1035	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-03	1055	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-30	1045	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-12	1115	1	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-11-01	1040	1	L.002	L.0020	L.001	L.003	L.002	L.2	.030	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-03-29	1145	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-03	1130	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-07	1120	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-06	1035	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-03	1055	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-30	1045	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-12	1115	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-11-01	1040	1	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN — LAT. 49D 0M 0S LONG. 105D 24M 33S

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-01-08	1040	1	2	19.8	1700	1510.	7.3	7.6	--	1.5
82-02-02	1250	3	0	21.1	1520	1470.	7.4	7.3	--	3.2
82-02-11	1740	1	0	20.7	1600.	1430	7.5	7.5	--	1.8
82-03-02	1540	3	0	23.6	1451	1420	7.8	7.4	--	3.5
82-03-09	1310	1	5	22.7	1600	1390	8.5	7.4	--	1.5
82-03-30	1305	3	0	21.0	1145	1140	8.6	8.5	--	6.5
82-04-07	0700	1	3	18.7	1450	1190	8.7	8.5	--	6.7
82-04-16	1400	3	2.5	20.6	624	555	8.5	8.3	--	58.0
82-04-26	0945	3	4.0	21.5	773	722	8.2	8.2	--	22.0
82-05-11	1200	3	8.5	18.3	806	744	8.1	8.2	--	17.0
82-06-22	1120	3	23.0	20.8 61R	882	824 41R	8.0	8.1 01R	--	5.5 73R
82-07-20	1150	3	23.0	23.6	1065	1010	8.0	8.3	--	5.2
82-08-24	1200	3	16.5	22.9	1288	1300	8.1	8.2	--	7.9
82-09-16	1130	3	9.0	15.8	1277	1330	8.1	8.3	--	3.2
82-10-21	1150	3	4.0	16.7	1366	1330	7.9	8.1	6.2	3.8
82-12-01	1600	3	1.0	20.7	1397	1360	8.0	7.5	4.6	3.4
82-12-15	1120	3	0	11.7	1349	1340	7.9	7.4	4.5	3.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-01-08	1040	1	20	3	--				--	4.4
82-02-02	1250	3	20	4	--	001	4	2	--	1.5
82-02-11	1740	1	30	6	--		--	--	--	4.2
82-03-02	1540	3	30	5	--	001	--	--	--	7.0
82-03-09	1310	1	20	2					--	4.8
82-03-30	1305	3	20	10	--	010	12	8	--	12.0
82-04-07	0700	1	10	11					--	4.8
82-04-16	1400	3	40	105	--	010	60	20	--	12.3
82-04-26	0945	3	20	20	--	006	32	4	--	10.8
82-05-11	1200	3	10	18	--	010	980	132	--	10.9
82-06-22	1120	3	20 21R	11 01R	--	007 171	58 020	16 12U	--	11.2
82-07-20	1150	3	20	10	--	020	4	4	--	8.6
82-08-24	1200	3	20	23	--	010	8	6	--	7.7
82-09-16	1130	3	20	15	--	008	12	12	--	10.9
82-10-21	1150	3	20	5		004	12	12	--	12.4
82-12-01	1600	3	20	2		004	12	12		7.9
82-12-15	1120	3	20	2		006	--			12.6

STATION - 00SA11AE0008 LAT. 49D 0M 0S LONG. 105D 24M 33S
EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-01-08	1040	1	0.	0	725.	595.0	81.30	59.0	445.9	230.0
82-02-02	1250	3	0.	0	683.	560.0	86.20	54.0	437.6	170.0
82-02-11	1740	1	0.	0	699.	573.0	77.50	52.0	407.6	200.0
82-03-02	1540	3	0.	0	671.	550.0	84.30	55.0	436.5	200.0
82-03-09	1310	1	0.	0	671.	550.0	56.50	54.0	363.4	200.0
82-03-30	1305	3	11.	9.0	521.	445.0	28.80	44.4	254.7	180.0
82-04-07	0700	1	0.	.2	572.	470.0	34.00	47.4	280.0	160.0
82-04-16	1400	3	0.	0	256.	210.0	24.50	21.9	151.3	65.0
82-04-28	0845	3	0.	0	335.	275.0	30.50	27.9	191.0	105.0
82-05-11	1200	3	0.	0	347.	285.0	31.40	28.5	195.7	110.0
82-06-22	1120	3	0.	0 51R	390.	320.0 01R	40.60 03R	31.5 02R	231.1	110.0 03R
82-07-20	1150	3	0.	0	475.	390.0	50.60	40.1	291.4	138.0
82-08-24	1200	3	0.	0	610.	500.0	61.90	57.0	389.2	197.0
82-09-16	1130	3	0.	0	634.	520.0	49.70	51.0	334.1	221.0
82-10-21	1150	3	0.	0	646.	530.0	52.50	50.0	336.9	230.0
82-12-01	1600	3	0.	0	658.	540.0	37.50	51.0	303.6	221.0
82-12-15	1120	3	0.	0	652.	535.0	41.00	49.4	305.8	205.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-01-08	1040	1	8.1	6.5	.41	300.	19.0	1061.	--	--
82-02-02	1250	3	7.6	6.3	.24	300.	16.0	978.	--	.002
82-02-11	1740	1	8.1	6.3	.26	290.	18.0	996.	--	--
82-03-02	1540	3	7.1	6.2	.31	284.	17.0	984.	--	.002
82-03-09	1310	1	7.8	6.1	.31	284.	17.0	955.	--	--
82-03-30	1305	3	16.0	7.0	.19	220.	1.4	765.	--	.004
82-04-07	0700	1	17.0	8.0	.20	228.	.8	777.	--	--
82-04-16	1400	3	8.6	3.3	.12	96.	2.8	348.	--	.006
82-04-28	0845	3	11.0	4.3	.16	132.	3.0	479.	--	.005
82-05-11	1200	3	10.0	4.2	.12	144.	3.8	503.	--	.006
82-06-22	1120	3	10.0 03R	4.3 06R	.19 05R	166. 06R	4.4 05R	559.	--	.004 04R
82-07-20	1150	3	10.0	4.1	.25	192.	5.8	675.	--	.004
82-08-24	1200	3	8.3	5.8	.28	314.	10.0	954.	--	.002
82-09-16	1130	3	8.1	6.0	.29	280.	11.0	939.	--	.004
82-10-21	1150	3	8.3	6.3	.28	296.	13.0	974.	--	.002
82-12-01	1600	3	7.5	6.1	.40	298.	16.0	961.		.001
82-12-15	1120	3	7.6	5.7	.26	278.	16.0	924.		.003

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AE0008 LAT. 49D 0M 05 LONG. 105D 24M 33S
EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651I NITROGEN DISSOLVED N MG/L	07902I NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-01-08	1040	1	.026	.007 03L	.019	.36 10L	--	1.10	L.01	Q1.11
82-02-02	1250	3	.018	.008	.010	.15	1.00	.86	.05	1.01
82-02-11	1740	1	.017	.003 03L	.014	.19 10L	--	1.00	.06	1.06
82-03-02	1540	3	.065	.011	.054	.20	.72	.72	.04	.76
82-03-09	1310	1	.025	.013 03L	.012	.24 10L	--	1.10	.07	1.17
82-03-30	1305	3	.069	.027	.042	.16	.86	.86	.28	1.14
82-04-07	0700	1	.048	.020 03L	.029	.10 10L	--	.88	.17	1.05
82-04-16	1400	3	.200	.068	.132	.26	.84	.84	.48	1.32
82-04-26	0945	3	.086	.054	.042	.24	.80	.83	.15	.98
82-05-11	1200	3	.084	.044	.040	.24	.78	.78	.15	.93
82-06-22	1120	3	.065 06R	.020 03V	.045	.06 10V	.49 51V	.55 51R	.18 02P	.73
82-07-20	1150	3	.043	.015	.028	.01	.44	.44	.19	.63
82-08-24	1200	3	.045	.006	.039	L.01	.28	.29	.25	.54
82-09-16	1130	3	.024	.006	.018	.06	.28	.27	.08	.35
82-10-21	1150	3	.020	.008	.012	.09	.46	.45	L.01	.45
82-12-01	1600	3	.013	.011	L.006	.10	.74	.70	L.01	.70
82-12-15	1120	3	.013	.004	.009	.15	.78	.73	L.01	.73

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-01-08	1040	1	--	--	6.2	.20	6.4	2.10	.0009 04I	L.0005 07I
82-02-02	1250	3	L.1	--	6.1	.34	6.4	1.90 05D	.0016	L.0005
82-02-11	1740	1	--	--	6.0	.41	6.4	2.20	.0011 04I	L.0005 07I
82-03-02	1540	3	.8	--	6.6	.27	6.9	1.90 05D	.0012	L.0005
82-03-09	1310	1	--	--	6.6	.46	7.1	2.00	.0010 04I	L.0005 07I
82-03-30	1305	3	L.1	--	13.0	1.50	14.5	1.30 05D	.0025	L.0005
82-04-07	0700	1		--	12.0	1.10	13.1	1.50	.0029 04I	L.0005 07I
82-04-16	1400	3	.2		7.6	4.10	11.7	.83 05D	.0022	L.0005
82-04-26	0945	3	.2	--	9.2	.98	10.2	.82 05D	.0023	L.0005
82-05-11	1200	3	.1	--	8.7	.92	9.6	.88 05D	.0022	L.0005
82-06-22	1120	3	L.1 00M	--	8.6 04R	1.10 07R	9.7	.99 05V	.0024 04V	L.0005 07V
82-07-20	1150	3	L.1	--	7.7	1.10	8.8	1.30 05D	.0019	L.0005
82-08-24	1200	3	L.1	--	7.3	1.60	8.9	2.30 05D	.0031	L.0005
82-09-16	1130	3	L.1	--	5.8	.49	6.3	1.70 05D	.0016	L.0005
82-10-21	1150	3	.3	--	6.7	.48	7.2	1.80 05D	.0013	.0005
82-12-01	1600	3	.6	--	4.6	.22	4.8	1.90 05D	.0016	L.0005
82-12-15	1120	3	.8	--	5.2	.28	5.5	1.70 05D	.0013	L.0005

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EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-01-08	1040	1	--	--	--	--	--	--	L .02	L .001
82-02-02	1250	3	--	--	--	.25	--	L .04	L .02	L .001
82-02-11	1740	1	--	--	.22	--	.44	--	L .02	.001
82-03-02	1540	3	--	--	--	.18	--	L .04	L .02	L .001
82-03-08	1310	1	--	--	.20	--	.31	--	L .02	L .001
82-03-30	1305	3	--	--	--	.01	--	.04	L .02	.003
82-04-07	0700	1	--	--	.04	--	.12	--	L .02	.004
82-04-16	1400	3	.82	--	--	.03	--	.12	L .02	.011
82-04-26	0845	3	.22	--	--	.02	--	.09	L .02	.004
82-05-11	1200	3	.38	--	--	.03	--	.10	L .02	.003
82-06-22	1120	3	.36 .07W	--	--	.06 .041	--	.04 .041	L .02 11W	.001 20W
82-07-20	1150	3	.24	--	--	.04	--	L .04	L .02	.002
82-08-24	1200	3	.04	--	--	L .01	--	L .04	L .02	.002
82-09-16	1130	3	.03	--	--	.01	--	L .04	.02	L .001
82-10-21	1150	3	.04	--	--	.12	--	L .04	L .02	L .001
82-12-01	1600	3	L .06	--	--	.19	--	L .04	.07	L .001
82-12-15	1120	3	.05	--	--	.24	--	L .04	.03	L .001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-01-08	1040	1	--	L .002	.012	.004	.024	.001	.07	L .004
82-02-02	1250	3	--	--	.005		--	L .001	.07	L .004
82-02-11	1740	1		L .002	L .002	.002	.013	L .001	.05	L .004
82-03-02	1540	3		L .002	L .002	L .001	.007	L .001	.09	L .004
82-03-08	1310	1	--	L .002	L .002	.002	.005	L .001	.09	L .004
82-03-30	1305	3	--	L .002	L .002	.002	L .001	L .001	.12	L .004
82-04-07	0700	1		L .002	.002	L .001	.013	.003	.12	L .004
82-04-16	1400	3		L .002	.005	.009	.009	L .001	.08	L .004
82-04-26	0845	3		L .002	.004	.004	.004	L .001	.06	L .004
82-05-11	1200	3	--	.002	L .002	.001	.002	L .001	.07	L .004
82-06-22	1120	3	--	L .002 20W	.005 20W	.002 20W	.002 20W	L .001 20W	.08 20W	L .004 20W
82-07-20	1150	3	--	L .002	.008	.001	.008	.002	.08	L .004
82-08-24	1200	3		L .002	.002	L .001	--	L .001	.09	L .004
82-09-16	1130	3		L .002	L .002	L .001	.004	L .001	.06	L .004
82-10-21	1150	3		L .002	L .002	.002	.001	L .001	.07	L .004
82-12-01	1600	3		L .002	L .002	.002	.001	L .001	L .05	L .004
82-12-15	1120	3		L .002	.003	L .001	L .001	L .001	.05	L .004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00SA11AE0008 LAT. 49D 0M 0S LONG. 105D 24M 33S
EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-02-02	1250	3	L.001	--	--	L.001	.001	L.001	L.001	L.002
82-03-02	1540	3	L.001	--	--	L.001	.001	L.001	L.001	L.002
82-03-30	1305	3	.001	--	--	L.001	L.001	L.001	L.001	L.002
82-04-16	1400	3	.001	--	--	L.001	L.001	L.001	L.001	L.002
82-04-26	0945	3	.001	--	--	L.001	.004	L.001	L.001	L.002
82-05-11	1200	3	L.001	--	--	L.001	.007	L.001	L.001	L.002
82-06-22	1120	3	.002 35W	--	--	L.001 11R	.009 75R	.001 70R	L.001 30R	L.002 10R
82-07-20	1150	3	.001	--	--	L.001	.010	L.001	L.001	L.002
82-08-24	1200	3	.002	--	--	L.001	.002	L.001	L.001	L.002
82-09-16	1130	3	.002	--	--	L.001	.001	L.001	L.001	L.002
82-10-21	1150	3	.002	--	--	L.001	.003	L.001	L.001	L.002
82-12-01	1600	3	L.001	--	--	L.001	L.001	L.001	L.001	L.002
82-12-15	1120	3	L.001	--	--	L.001	L.001	L.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-02-02	1250	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-02	1540	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-03-30	1305	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-16	1400	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-04-26	0945	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-11	1200	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-22	1120	3	L.001 20R	L.001 05R	L.004 00R	L.01 30R	L.0020 40R	L.001 50R	L.003 55R	L.001 40R
82-07-20	1150	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-08-24	1200	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-09-16	1130	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-10-21	1150	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-01	1600	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-12-15	1120	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-02-02	1250	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-02	1540	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-03-30	1305	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-16	1400	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-04-26	0945	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-11	1200	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-22	1120	3	L.002 45R	L.0020 50P	L.001 25R	L.003 60R	L.002 65R	L.2 20W	L.004 00W	L.009 50W
82-07-20	1150	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-08-24	1200	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-09-16	1130	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-10-21	1150	3	L.002	L.0020	L.001	L.003	L.002	L.2	.010	L.009
82-12-01	1600	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-12-15	1120	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-02-02	1250	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-02	1540	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-03-30	1305	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-16	1400	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-04-26	0945	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-11	1200	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-22	1120	3	L.004 55W	L.002 10W	L.004 40W	L.2 01W	L.002 59R	L.002 60R	L.005 62R	L.002 64R
82-07-20	1150	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-08-24	1200	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-09-16	1130	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-10-21	1150	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-12-01	1600	3	L.004	L.002	L.004	--	L.002	L.002	L.005	L.002
82-12-15	1120	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002

DETAILED WATER QUALITY DATA 1982
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STATION - 00SA11AE0008 LAT. 49D 0M 0S LONG. 105D 24M 33S
EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18260P FENCHLORPHOS (RONNEL) UG/L	18270P DIAZINON UG/L	18300P PHORATE UG/L	18310P ETHION UG/L	18320P CARBO-PHENOTHION UG/L	92111P URANIUM DISSOLVED U UG/L	88502P RADIUM RADIATION RA-226 BQ/L	01502P TRITIUM RADIATION H-3 BQ/L
82-02-02	1200	7	--	--	--	--	--	3.16	.0070	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-02	1200	7	.0055	--	1	

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 01SA06DA0001 LAT. 58D 28M 49S LONG. 103D 16M 49S
WOLLASTON LAKE AT ROSS CHANNEL. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-02-15	1430	1	.5	19.0	32.	33.	7.8	7.2	--	.8

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101M OXYGEN DISSOLVED DO O2 MG/L
82-02-15	1430	1	5.	L1.	--	--	--	--	--	16.2

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-02-15	1430	1	0.	.0	13	11.0	4.00	1.5	16.2	1.4

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-02-15	1430	1	.6	4	L.05	3	1.8	19		L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-02-15	1430	1	010	003 031	007	01 101	-	15	L.01	0.16

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-02-15	1430	1		--	3.3	11	3.4	.03	L.0005 041	L.0005 021

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-02-15	1430	1	--	L.004	L.01	--	04	--	-	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-02-15	1430	1	L.015	L.002	.003	.005	002	L.001	L.05	L.004

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 01SA06DA0001 LAT. 58D 28M 49S LONG. 103D 16M 49S
WOLLASTON LAKE AT ROSS CHANNEL. SASKATCHEWAN

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	51501P ANTIMONY RADIATION SB-125 BQ/L	55502P CESIUM RADIATION CS-137 BQ/L	97354L COMPOSITE SAMPLE DESCRIPTIVE CODE	06152L CARBON DISSOLVED INORGANIC C MG/L
82-02-15	1430	1	--	--	--	2.8

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN. L PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

STATION - 00US05NB0001 LAT. 48D 58M 51S LONG. 103D 4M 33S
LONG CREEK 6 KM. SW OF BORDER CROSSING NEAR NOONAN, NORTH DAKOTA, USA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02061F TEMP. WATER DEG. C.	02061L TEMP. WATER DEG. C.	02041F SPECIFIC CONDUCT. USIE/CM	02041L SPECIFIC CONDUCT. USIE/CM	10301F PH PH UNITS	10301L PH PH UNITS	02073F TURBIDITY JTU	02073L TURBIDITY JTU
82-04-25	1600	3	9.0	21.8	352.	340.	7.7	7.6	--	44.0
82-05-12	1515	3	8.5	18.3	965	860.	7.4	8.0	-	13.0
82-06-21	1300	3	20.0	21.2	1425	1290.	8.2	8.3	--	2.4
82-07-19	1300	3	23.0	24.1	620.	570.	7.5	7.6	--	61.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	02021L COLOUR TRUE REL. UNITS	10401L RESIDUE NONFILTR. MG/L	10501L RESIDUE FIXED NONFILTR. MG/L	06717G CHLORO-PHYLL A MG/L	36002F COLIFORMS TOTAL MF NO/DL	36012F COLIFORMS FECAL MF NO/DL	36103F FECAL STREP. MF NO/DL	08101W OXYGEN DISSOLVED DO O2 MG/L
82-04-25	1600	3	60.	44	--	.008	16	14.	--	9.8
82-05-12	1515	3	50.	12.	--	.020	8.	8.	--	11.2
82-06-21	1300	3	30.	2.	--	L.001	30.	30.	--	10.4
82-07-19	1300	3	140.	42.	--	010	58.	56.		3.5

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06301L CARBONATE (CALCD.) CO3 MG/L	10151L ALKALINITY PHENOLPHTHALEIN CACO3 MG/L	06201L BICARBONT. (CALCD.) HCO3 MG/L	10101L ALKALINITY TOTAL CACO3 MG/L	20103L CALCIUM DISSOLVED CA MG/L	12102L MAGNESIUM DISSOLVED MG MG/L	10602L HARDNESS TOTAL (CALCD.) CACO3 MG/L	11103L SODIUM DISSOLVED NA MG/L
82-04-25	1600	3	0	.0	90	74.0	27.50	12.7	121.0	21.0
82-05-12	1515	3	0.	.0	195	160.0	44.20	34.5	252.4	85.0
82-06-21	1300	3	0.	.0	274	225.0	81.80	57.0	438.9	140.0
82-07-19	1300	3	0	.0	207.	170.0	27.90	16.3	136.8	76.0

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	19103L POTASSIUM DISSOLVED K MG/L	17206L CHLORIDE DISSOLVED CL MG/L	09105L FLUORIDE DISSOLVED F MG/L	16306L SULPHATE DISSOLVED SO4 MG/L	14105L SILICA REACTIVE SIO2 MG/L	00201L TOTAL DISSOLVED SOLIDS (CALCD.) MG/L	16104P SULFIDE DISSOLVED S MG/L	06604P CYANIDE DISSOLVED CN MG/L
82-04-25	1600	3	7.2	4.1	.11	82.	9.9	209	-	.006
82-05-12	1515	3	9.5	13.0	09	304.	14.0	600	--	.004
82-06-21	1300	3	11.0	21.0	.10	500	4.2	950.	-	.004
82-07-19	1300	3	10.0	5.5	17	130.	18.0	386.	--	.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	15406L PHOSPHORUS TOTAL P MG/L	15103D PHOSPHORUS TOTAL DISSOLVED P MG/L	15901L PHOSPHORUS PARTICULATE (CALCD.) P MG/L	07110D NITROGEN DISSOLVED NO3 & NO2 N MG/L	07651D NITROGEN DISSOLVED N MG/L	07651L NITROGEN DISSOLVED N MG/L	07902L NITROGEN PARTICUL. N MG/L	07603L NITROGEN TOTAL (CALCD.) N MG/L
82-04-25	1600	3	230	130	100	44	.86	.92	.40	1.32
82-05-12	1515	3	.340	130	.210	.02	59	.56	.27	83
82-06-21	1300	3	.048	.027	.021	L.01	.62	.63	.08	71
82-07-19	1300	3	.440	350	.090	.01	.71	78	.35	1.10

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	07506P NITROGEN TOTAL AMMONIA N MG/L	15256D PHOSPHORUS DISSOLVED ORTHO PO4 P MG/L	06104L CARBON DISSOLVED ORGANIC C MG/L	06902L CARBON ORGANIC PARTICUL. C MG/L	06002L CARBON TOTAL ORGANIC (CALCD.) MG/L	05105L BORON DISSOLVED B MG/L	33104D ARSENIC DISSOLVED AS MG/L	34102D SELENIUM DISSOLVED SE MG/L
82-04-25	1600	3	L.1	--	7.5	2.30	9.8	15 05D	.0025	.0005
82-05-12	1515	3	L.1	--	10.0	1.50	11.5	.14 05D	.0021	.0009
82-06-21	1300	3	L.1	--	12.0	.50	12.5	.14 05D	.0020	L.0005
82-07-19	1300	3	.1	--	11.0	2.10	13.1	.25 05D	.0036	.0005

DETAILED WATER QUALITY DATA 1982
SASKATCHEWAN

STATION - 00US05NB0001 LAT. 48D 58M 51S LONG. 103D 4M 33S
LONG CREEK 6 KM. SW OF BORDER CROSSING NEAR NOONAN, NORTH DAKOTA, USA

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	13302P ALUMINUM EXTRBLE. AL MG/L	47301P SILVER EXTRBLE. AG MG/L	25304P MANGANESE EXTRBLE. MN MG/L	25104G MANGANESE DISSOLVED MN MG/L	26304P IRON EXTRBLE. FE MG/L	26104G IRON DISSOLVED FE MG/L	80011P MERCURY TOTAL HG UG/L	23020P VANADIUM TOTAL RECOVERABLE VA MG/L
82-04-25	1600	3	--	--	--	.03	--	.13	L.02	.010
82-05-12	1515	3	--	--	--	.02	--	.10	L.02	.002
82-06-21	1300	3	--	--	--	.06	--	.04	L.02	L.001
82-07-19	1300	3	--	--	--	.07	--	.91	.04	.014

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	24302P CHROMIUM EXTRBLE. CR MG/L	27020P COBALT TOTAL RECOVERABLE CO MG/L	28020P NICKEL TOTAL RECOVERABLE NI MG/L	29020P COPPER TOTAL RECOVERABLE CU MG/L	30020P ZINC TOTAL RECOVERABLE ZN MG/L	48020P CADMIUM TOTAL RECOVERABLE CD MG/L	56020P BARIUM TOTAL RECOVERABLE BA MG/L	82020P LEAD TOTAL RECOVERABLE PB MG/L
82-04-25	1600	3	--	L.002	.004	.008	.009	L.001	.06	L.004
82-05-12	1515	3	--	L.002	.009	.001	.016	L.001	.09	L.004
82-06-21	1300	3	--	L.002	.004	.002	.006	L.001	.11	L.004
82-07-19	1300	3	-	L.002	.006	.006	.020	L.001	.08	L.004

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	06535P PHENOLIC MATERIAL PHENOL MG/L	06500P N-ALKANES C10 - C26 UG/L	06510P AROMATIC HYDROC. UG/L	17811L HEXACHLORO-BENZENE UG/L	18075L ALPHA-BHC UG/L	18070L GAMMA-BHC (LINDANE) UG/L	18130L ALDRIN UG/L	18010L P.P-TDE UG/L
82-04-25	1600	3	.002	--	-	L.001	.008	L.001	L.001	L.002
82-05-12	1515	3	L.001	--	--	L.001	.005	L.001	L.001	L.002
82-06-21	1300	3	.002	--	-	L.001	.007	.003	L.001	L.002
82-07-19	1300	3	.004	--	--	L.001	.002	.001	L.001	L.002

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18020L P.P-DDE UG/L	18005L O.P-DDT UG/L	18000L P.P-DDT UG/L	18030L P.P-METHOXY-CHLOR UG/L	18140L ENDRIN UG/L	18050L ALPHA-ENDOSULFAN UG/L	18055L BETA-ENDOSULFAN UG/L	18040L HEPTACHLOR UG/L
82-04-25	1600	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-05-12	1515	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-06-21	1300	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001
82-07-19	1300	3	L.001	L.001	L.004	L.01	L.0020	L.001	L.003	L.001

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18045L HEPTACHLOR EPOXIDE UG/L	18150L HEOD (DIELDRIN) UG/L	18125L MIREX UG/L	18060L ALPHA-(CIS) CHLORDANE UG/L	18065L GAMMA-(TRANS) CHLORDANE UG/L	18520P MCPA UG/L	18500P 2.4-D UG/L	18550P 2.4-DB UG/L
82-04-25	1600	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-05-12	1515	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-06-21	1300	3	L.002	L.0020	L.001	L.003	L.002	L.2	L.004	L.009
82-07-19	1300	3	L.002	L.0020	L.001	L.003	L.002	-	--	--

DATE YMD/AMJ	TIME/ HEURE	SUB-ID/ SOUS-ID	18555P DICHLORPROP UG/L	18510P 2.4.5-T UG/L	18540P FENOPROP (SILVEX) UG/L	18601P PICLORAM UG/L	18159L AROCLOR 1242 (PCB'S) UG/L	18160L AROCLOR 1254 (PCB'S) UG/L	18162L AROCLOR 1260 (PCB'S) UG/L	18164L AROCLOR TOTAL (PCB'S) UG/L
82-04-25	1600	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-05-12	1515	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-06-21	1300	3	L.004	L.002	L.004	L.2	L.002	L.002	L.005	L.002
82-07-19	1300	3	--	--	-	L.2	L.002	L.002	L.005	L.002

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

Alphabetical Station Index
Index alphabétique des stations

Location Description	Station Number / Station Parameters	Latitude °	'	"	Longitude °	'	"	Page	Map Number
ASSINIBOINE RIVER AT HWY 8 BRIDGE BELOW KAMSACK, SASKATCHEWAN	**00SA05MD0002**	51	32	0	101	53	20	230	1
BATTLE CREEK NEAR U.S. BOUNDARY SOUTHEAST OF CONSUL, SASKATCHEWAN	**00SA11AB0005** 97900S027	49	0	9	109	25	21	255	2
BATTLE RIVER NEAR UNWIN, SASKATCHEWAN	**00SA05FE0001** 97900S001	52	56		109	52		198	3
BEAVER RIVER ABOVE BEAUVAL SASKATCHEWAN	**00SA06AG0004**	55	8	0	107	36	15	238	4
BIRCH RIVER BELOW CUMBERLAND MARSHES DAM, NR CUMBERLAND HOUSE, SASKATCHEWAN	**00SA05KH0004** 97900S014	53	50	0	101	57	25	224	5
CARROT RIVER NEAR TURNBERRY SASKATCHEWAN	**00SA05KH0002** 97900S007	53	36		102	7		218	6
CHURCHILL RIVER AT OTTER RAPIDS SASKATCHEWAN	**00SA06CD0001** 97900S002	55	38	25	104	44	5	243	7
CHURCHILL RIVER BELOW WASAWAKASIK LAKE, SASKATCHEWAN	**00SA06EA0002**	55	36	30	102	11	45	217	8
CHURCHILL RIVER NEAR PATUANAK SASKATCHEWAN	**00SA06BB0004** 97900S003	55	55	30	107	43	39	240	9
DOUGLAS RIVER APPROX. 16.1KM. BELOW CLUFF CREEK SASKATCHEWAN	**00SA07MA0001**	58	19	21	109	47	9	252	10
DRAGLINE CHANNEL BELOW WSC CONTROL STRUCTURE NR. SQUAW RAPID SASKATCHEWAN	**00SA05KH0003** 97900S011	53	50	0	102	56	25	221	11
EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY SASKAKATCHEWAN	**00SA11AE0008** 97900S003	49	0	0	105	24	36	262	12
FOND DU LAC RIVER AT OUTLET OF BLACK LAKE, SASKATCHEWAN	**00SA07LC0001** 97900S007	59	9	0	105	32	30	250	13
FRENCHMAN RIVER AT THE 49TH PARALLEL SASKATCHEWAN	**00SA11AC0002**	49	0	0	107	18	10	259	14
GEIKIE RIVER BELOW JUNCTION OF WHEELER RIVER, SASKATCHEWAN	**00SA06DA0001** 97900S002	57	35	20	104	12	10	245	15
LODGE CREEK NEAR WILLOW CREEK AT HWY 21, SASKATCHEWAN	**00SA11AB0007** 97900S083	49	0	24	109	43	30	257	16

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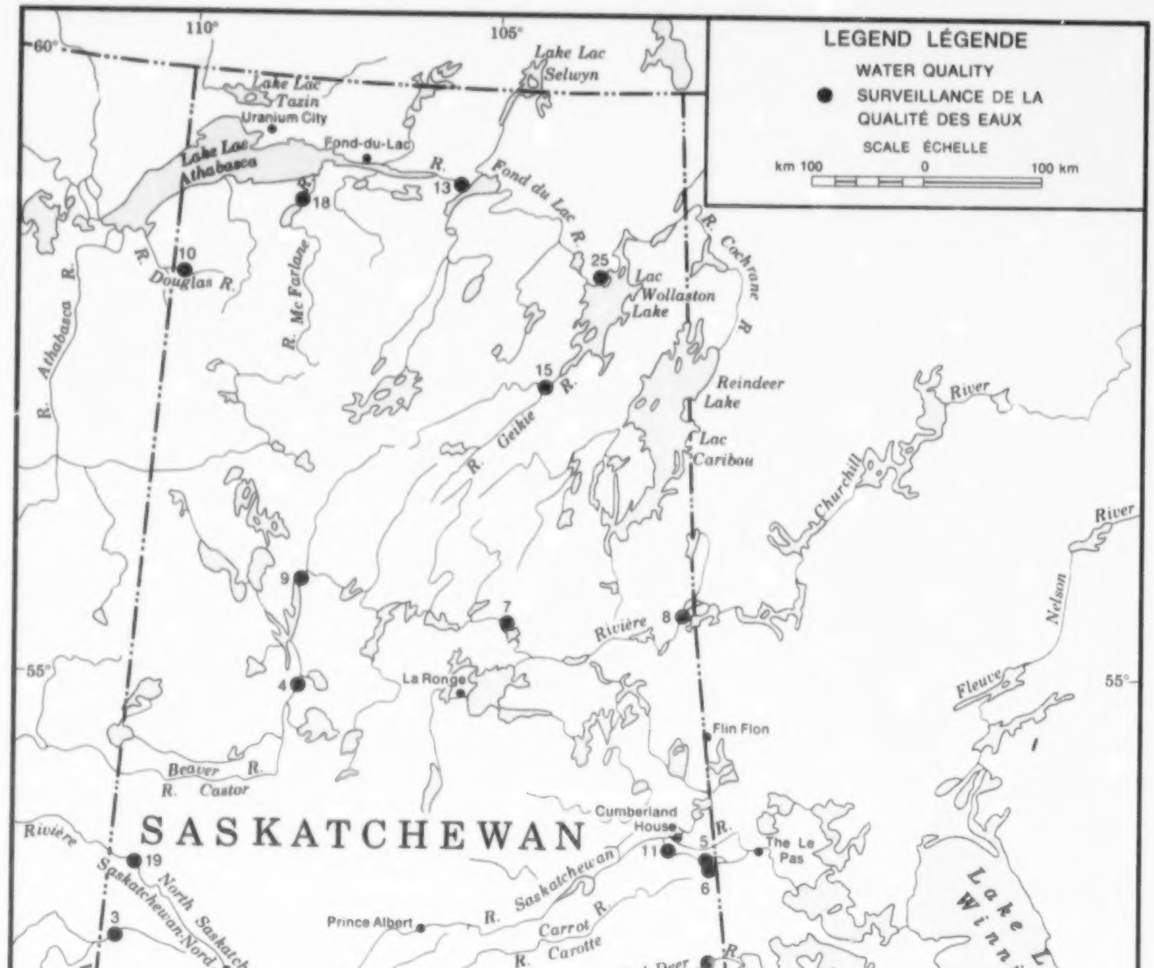
Station Location Map

Carte des stations



WATER QUALITY BRANCH MONITORING STATIONS 1982
STATIONS DE SURVEILLANCE DE LA DIRECTION DE LA QUALITÉ DES EAUX 1982